SECTION 09 67 23

RESINOUS FLOORING AND WALL SYSTEMS

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\*\* NOTE TO SPECIFIER \*\* Tennant Coatings Inc.; resinous flooring, resinous wall coatings.  
This section is based on the products of Tennant Coatings Inc., which is located at:  
1120 Exchange Ave.  
Chicago, IL 60609  
Toll Free Tel: 800-228-4943  
Email: [request info (coatings@sherwin.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Tennant+Coatings+Inc.&coid=35973&rep=&fax=&message=RE:%20Spec%20Question%20(09670tnt):%20%20&mf=)  
Web: <http://www.tennantcoatings.com>   
  
 [ [Click Here](https://www.arcat.com/arcatcos/cos35/arc35973.html) ] for additional information.  
  
Tennant Coatings - a leader in resinous floor coating solutions and innovation - helps protect and enhance floors with superior results. With expertise in industries such as Aviation, Food & Beverage, Manufacturing Grocery-Retail, Healthcare, Pharmaceutical and Electronics, our portfolio of products and systems can meet virtually any flooring need. With our deepest base of industry and technical knowledge, you can rely on Tennant Coatings to find a solution that's right for you!

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Resinous Systems of the Following Types:
       1. Tennant Mechanical Room. (Flex-Flex-Flex-MPE-HTS 100)
       2. Tennant Mechanical Room DB. (Flex-Flex-Flex\*-MPE\*-MPE-HTS 100)
       3. Tennant Mechanical Room SB. (FLP-FLB\*-MPE-HTS 100)
       4. Tennant Mechanical Room SB. (Flex-Flex-Flex\*-MPE-HTS 100)
       5. Tennant Mechanical Room DB, customized systems.
       6. Tennant Mechanical Room SB, customized systems.
       7. Tennant Shop Floor SB. (MPE-MPE\*-MPE-HTS 100)
       8. Tennant Shop Floor DB. (MPE\*-MPE\*-MPE-HTS 100)
       9. Tennant Shop Floor DB, customized systems.
       10. Tennant Shop Floor SB, customized systems.
       11. Tennant Quartz DB. (MPE\*-MPE\*-UVE-HTS 100)
       12. Tennant Quartz DB. (MPE\*-MPE\*-UVE-UVE)
       13. Tennant Quartz DB. (FLEX\*-FLEX\*-TCP-TCP)
       14. Tennant Quartz DB. (MPE\*-MPE\*-TCP-TCP)
       15. Tennant Quartz DB. (TCP\*-TCP\*-TCP)
       16. Tennant Quartz TQ. (MPE-MPE\*\*-UVE-UVE-HTS 100)
       17. Tennant Quartz TQ. (MPE-MPE\*\*-UVE-UVE-UVE)
       18. Tennant Quartz TQ. (MPE-MPE\*\*-UVE-UVE-TCP)
       19. Tennant Quartz DB, customized systems.
       20. Tennant Quartz TQ, customized systems.
       21. Tennant Flake SB. (MPE-MPE\*-UVE-HTS 100)
       22. Tennant Flake SB. (MPE-MPE\*-UVE-UVE)
       23. Tennant Flake SB. (MPE-MPE\*-TCP-TCP)
       24. Tennant Flake DB. (MPE\*-MPE\*-UVE-HTS 100)
       25. Tennant Flake DB. (MPE\*-MPE\*-UVE-UVE)
       26. Tennant Flake DB. (MPE\*-MPE\*-TCP-TCP)
       27. Tennant Flake DB. (Flex-Flex-TCP-TCP)
       28. Tennant Flake DB. (TCP\*-TCP\*-TCP)
       29. Tennant Flake DQF. (MPE\*(DQ)-MPE\*(DF)-UVE-UVE)
       30. Tennant Flake DQF. (MPE\*(DQ)-TCP\*(DF)-TCP-TCP)
       31. Tennant Flake RB. (MPE-UVE\*-HTS 100)
       32. Tennant Flake RB. (MPE-UVE\*-UVE)
       33. Tennant Flake RB. (MPE-TCP\*-TCP)
       34. Tennant Flake DB, customized systems.
       35. Tennant Flake DQF, customized systems.
       36. Tennant Flake RB, customized systems.
       37. Tennant Flake SB, customized systems.
       38. Tennant Heavy Duty. (MPE-PT250-PT TOPCOAT-PT TOPCOAT)
       39. Tennant Heavy Duty. (MPE-PT250-PT TOPCOAT-MPE-HTS 100)
       40. Tennant Heavy Duty. (MPE-PT250-PT TOPCOAT-MPE-TCP)
       41. Tennant Heavy Duty Quartz. (MPE-PT250-PT TOPCOAT-MPE\*-UVE-HTS 100)
       42. Tennant Heavy Duty Quartz. (MPE-PT250-PT TOPCOAT-MPE\*-UVE-UVE)
       43. Tennant Heavy Duty Quartz. (MPE-PT250-PT TOPCOAT-MPE\*-UVE-TCP)
       44. Tennant Heavy Duty Quartz. (MPE-PT250-PT TOPCOAT-MPE\*-TCP-TCP)
       45. Tennant Heavy Duty Flake. (MPE-PT250-PT TOPCOAT-MPE\*-UVE-HTS 100)
       46. Tennant Heavy Duty Flake. (MPE-PT250-PT TOPCOAT-MPE\*-UVE-UVE)
       47. Tennant Heavy Duty Flake. (MPE-PT250-PT TOPCOAT-MPE\*-UVE-TCP)
       48. Tennant Heavy Duty Flake. (MPE-PT250-PT TOPCOAT-MPE\*-TCP-TCP)
       49. Tennant Heavy Duty Shop Floor DB. (MPE-PT 250-PT Topcoat-MPE\*-MPE\*-MPE-HTS 100)
       50. Tennant Heavy Duty Shop Floor SB. (MPE-PT 250-PT Topcoat-MPE\*-MPE-HTS 100)
       51. Tennant Heavy Duty, customized systems.
       52. Tennant Heavy Duty Flake, customized systems.
       53. Tennant Heavy Duty Quartz, customized systems.
       54. Tennant Heavy Duty Shop Floor DB, customized systems.
       55. Tennant Heavy Duty Shop Floor SB, customized systems.
       56. Tennant Eco-Crete MF. (TC-MF)
       57. Tennant Eco-Crete MF, customized systems.
       58. Tennant Eco-Crete SL. (SL\*-TC)
       59. Tennant Eco-Crete SL. (SL\*-UVE)
       60. Tennant Eco-Crete SL. (SL\*-TCP)
       61. Tennant Eco-Crete SL DB. (SL\*-MPE\*-MPE-HTS 100)
       62. Tennant Eco-Crete SL DB. (SL\*-MPE\*-TCP-TCP)
       63. Tennant Eco-Crete SL DB. (SL\*-MMA BODY\*-MMA TOP-MMA TOP)
       64. Tennant Eco-Crete SL, customized systems.
       65. Tennant Eco-Crete SL DB, customized systems.
       66. Tennant Eco-Crete SL Quartz. (SL\*-UVE-HTS 100)
       67. Tennant Eco-Crete SL Quartz. (SL\*-UVE-UVE)
       68. Tennant Eco-Crete SL Quartz. (SL\*-UVE-TCP)
       69. Tennant Eco-Crete SL Quartz DB. (SL\*-MPE\*-UVE-HTS 100)
       70. Tennant Eco-Crete SL Quartz DB. (SL\*-MPE\*-TCP-TCP)
       71. Tennant Eco-Crete SL Quartz DB. (SL\*-MMA BODY\*-MMA TOP-MMA TOP)
       72. Tennant Eco-Crete SL Quartz, customized systems.
       73. Tennant Eco-Crete SL Quartz DB, customized systems.
       74. Tennant Eco-Crete SL Flake. (SL\*-UVE-HTS 100)
       75. Tennant Eco-Crete SL Flake. (SL\*-UVE-UVE)
       76. Tennant Eco-Crete SL Flake. (SL\*-UVE-TCP)
       77. Tennant Eco-Crete SL Flake DB. (SL\*-MPE\*-UVE-HTS 100)
       78. Tennant Eco-Crete SL Flake DB. (SL\*-MPE\*-TCP-TCP)
       79. Tennant Eco-Crete SL Flake DB. (SL\*-MMA BODY\*-MMA TOP-MMA TOP)
       80. Tennant Eco-Crete SL Flake, customized systems.
       81. Tennant Eco-Crete SL Flake DB, customized systems.
       82. Tennant Eco-Crete SF. (SF\*-TC)
       83. Tennant Eco-Crete SF. (SF\*-UVE)
       84. Tennant Eco-Crete SF. (SF\*-TCP)
       85. Tennant Eco-Crete SF, customized systems.
       86. Tennant Eco-Crete SF Quartz. (SF\*-UVE-HTS 100)
       87. Tennant Eco-Crete SF Quartz. (SF\*-UVE-UVE)
       88. Tennant Eco-Crete SF Quartz. (SF\*-UVE-TCP)
       89. Tennant Eco-Crete SF Quartz DB. (SF\*-MPE\*-UVE-HTS 100)
       90. Tennant Eco-Crete SF Quartz DB. (SF\*-MPE\*-TCP-TCP)
       91. Tennant Eco-Crete SF Quartz DB. (SF\*-MMA BODY\*-MMA TOP-MMA TOP)
       92. Tennant Eco-Crete SF Quartz, customized systems.
       93. Tennant Eco-Crete SF Quartz DB, customized systems.
       94. Tennant Eco-Crete SF Flake. (SF\*-UVE-HTS 100)
       95. Tennant Eco-Crete SF Flake. (SF\*-UVE-UVE)
       96. Tennant Eco-Crete SF Flake. (SF\*-UVE-TCP)
       97. Tennant Eco-Crete SF Flake DB. (SF\*-MPE\*-UVE-HTS 100)
       98. Tennant Eco-Crete SF Flake DB. (SF\*-MPE\*-TCP-TCP)
       99. Tennant Eco-Crete SF Flake DB. (SF\*-MMA BODY\*-MMA TOP-MMA TOP)
       100. Tennant Eco-Crete SF Flake, customized systems.
       101. Tennant Eco-Crete SF Flake DB, customized systems.
       102. Tennant Eco-Crete HF. (HF)
       103. Tennant Eco-Crete HF Flake DB. (HF\*-MPE\*-TCP-TCP)
       104. Tennant Eco-Crete HF Quartz DB. (HF\*-MPE\*-TCP-TCP)
       105. Tennant Eco-Crete HF, customized systems.
       106. Tennant Eco-Crete HF Flake DB, customized systems.
       107. Tennant Eco-Crete HF Quartz DB, customized systems.
       108. Tennant Eco-Crete IF. (IF)
       109. Tennant Eco-Crete IF, customized systems.
       110. Tennant Wall Glaze. (MPE-PT Topcoat-PT Topcoat-UVE with Fumed Silica)
       111. Tennant Wall Glaze. (MPE-PT Topcoat-PT Topcoat-HTS 100)
       112. Tennant Wall TQ. (MPE-PT Topcoat\*-PT Topcoat-MPE\*\*-UVE with Fumed Silica-UVE with Fumed Silica-HTS 100)
       113. Tennant Wall TQ. (MPE-PT Topcoat\*-PT Topcoat-MPE\*\*-TCU with Fumed Silica-TCU with Fumed Silica-HTS 100)
       114. Tennant Wall DF. (MPE-PT Topcoat\*-UVE\* with Fumed Silica-UVE with Fumed Silica-HTS 100)
       115. Tennant Wall DF. (MPE-PT Topcoat\*-UVE\* with Fumed Silica-UVE with Fumed Silica-UVE with Fumed Silica)
       116. Tennant Wall Reinforced. (MPE- PT Topcoat-PT Topcoat with Fiberglass Mat-UVE with Fumed Silica-HTS 100)
       117. Tennant Wall Reinforced. (MPE-PT Topcoat-PT Topcoat with Fiberglass Mat-UVE with Fumed Silica-UVE with Fumed Silica)
       118. Tennant Wall DF, customized systems.
       119. Tennant Wall TQ, customized systems.
       120. Tennant Wall Glaze, customized systems.
       121. Tennant Wall Reinforced, customized systems.
       122. Tennant Performance CRU. (MPE-MPE-CRU)
       123. Tennant Performance CRU. (RCE-RCE-CRU)
       124. Tennant Performance CRU. (RCE/M-RCE/M-CRU)
       125. Tennant Performance CRU. (GPE-GPE-CRU)
       126. Tennant Performance CRU. (CEP-CEP-CRU)
       127. Tennant Performance HPS. (MPE-MPE-HPS 100)
       128. Tennant Performance HPS. (RCE-RCE-HPS 100)
       129. Tennant Performance HPS. (RCE/M-RCE/M-HPS 100)
       130. Tennant Performance HPS. (GPE-GPE-HPS 100)
       131. Tennant Performance HPS. (CEP-CEP-HPS 100)
       132. Tennant Performance HTS. (MPE-MPE-HTS 100)
       133. Tennant Performance HTS. (RCE-RCE-HTS 100)
       134. Tennant Performance HTS. (RCE/M-RCE/M-HTS 100)
       135. Tennant Performance HTS. (GPE-GPE-HTS 100)
       136. Tennant Performance HTS. (CEP-CEP-HTS 100)
       137. Tennant Performance WG-240. (MPE-MPE-WearGuard-240)
       138. Tennant Performance WG-240. (MPE-MPE-Wear Guard 240-Wear Guard 240)
       139. Tennant Performance WG-240. (RCE-RCE-Wear Guard 240)
       140. Tennant Performance WG-240. (RCE/M-RCE/M-Wear Guard 240)
       141. Tennant Performance WG-240. (GPE-GPE-Wear Guard 240)
       142. Tennant Performance CRU, customized systems.
       143. Tennant Performance HPS, customized systems.
       144. Tennant Performance HTS, customized systems.
       145. Tennant Performance WG-240 Gloss, customized systems.
       146. Tennant Metallic Gloss. (MPE-MPE-UVE-HPS 100)
       147. Tennant Metallic Gloss. (MPE-MPE-UVE)
       148. Tennant Metallic Satin. (MPE-MPE-UVE-HTS 100)
       149. Tennant Metallic Gloss, customized systems.
       150. Tennant Metallic Satin, customized systems.
       151. Tennant MMA DQ DB. (P-BC\*-BC\*-TC-TC)
       152. Tennant MMA DF DB. (P-BC\*-BC\*-TC-TC)
       153. Tennant MMA Slurry. (P-BC (FILLER & SILICA SAND)-TC-TC)
       154. Tennant MMA Slurry. (P-BC (FILLER & DF)-TC-TC)
       155. Tennant MMA Slurry. (P-BC (FILLER & DQ)-TC-TC)
       156. Tennant MMA Shop Floor. (P-BC\*-BC\*-TC-TC)
       157. Tennant MMA DF DB, customized systems.
       158. Tennant MMA DQ DB, customized systems.
       159. Tennant MMA Shop Floor, customized systems.
       160. Tennant MMA Slurry DF, customized systems.
       161. Tennant MMA Slurry DQ, customized systems.
       162. Tennant MMA Slurry, customized systems.
       163. Tennant ESD Conductive ECE. (MPE-MPE-ECE)
       164. Tennant ESD Conductive ECE. (RCE-RCE-ECE)
       165. Tennant ESD Conductive ECE. (RCE/M-RCE/M-ECE)
       166. Tennant ESD Conductive ECE. (GPE-GPE-ECE)
       167. Tennant ESD Dissipative SCT. (MPE-MPE-SCT)
       168. Tennant ESD Dissipative SCT. (RCE-RCE-SCT)
       169. Tennant ESD Dissipative SCT. (RCE/M-RCE/M-SCT)
       170. Tennant ESD Dissipative SCT. (GPE-GPE-SCT)
       171. Tennant ESD Dissipative SDS. (MPE-MPE-SDS)
       172. Tennant ESD Dissipative SDS. (RCE-RCE-SDS)
       173. Tennant ESD Dissipative SDS. (RCE/M-RCE/M-SDS)
       174. Tennant ESD Dissipative SDS. (GPE-GPE-SDS)
       175. Tennant ESD Conductive ECE, customized systems.
       176. Tennant ESD Dissipative SDS, customized systems.
       177. Tennant ESD Dissipative SCT, customized systems.
       178. Product properties
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM C29 / C 29M - Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate.
       2. ASTM C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens).
       3. ASTM C128 - Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate.
       4. ASTM C307 - Standard Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacings.
       5. ASTM C348 - Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars.
       6. ASTM C413 - Standard Test Method for Absorption of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
       7. ASTM C566 - Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying.
       8. ASTM C570 - Standard Specification for Oil- and Resin-Base Caulking Compound for Building Construction.
       9. ASTM C579 - Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
       10. ASTM C580 - Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
       11. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
       12. ASTM D257 - Standard Test Methods for DC Resistance or Conductance of Insulating Materials.
       13. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
       14. ASTM D471 - Standard Test Method for Rubber Property - Effect of Liquids.
       15. ASTM D522 - Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings.
       16. ASTM D570 - Standard Test Method for Water Absorption of Plastics.
       17. ASTM D624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
       18. ASTM D628 - Standard Specification for Asbestos Tubular Sleeving.
       19. ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
       20. ASTM D638 - Standard Test Method for Tensile Properties of Plastics.
       21. ASTM D648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
       22. ASTM D695 - Standard Test Method for Compressive Properties of Rigid Plastics.
       23. ASTM D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between minus 22 to 86 degrees F (minus 30 and 30 degrees C) with a Vitreous Silica Dilatometer.
       24. ASTM D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
       25. ASTM D1308 - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes.
       26. ASTM D1475 - Standard Test Method For Density of Liquid Coatings, Inks, and Related Products.
       27. ASTM D2047 - Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
       28. ASTM D2134 - Standard Test Method for Determining the Hardness of Organic Coatings with a Sward-Type Hardness Rocker.
       29. ASTM D2196 - Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational Viscometer.
       30. ASTM D2240 - Standard Test Method for Rubber Property-Durometer Hardness.
       31. ASTM D2244 - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates.
       32. ASTM D2369 - Standard Test Method for Volatile Content of Coatings.
       33. ASTM D2370 - Standard Test Method for Tensile Properties of Organic Coatings.
       34. ASTM D2393 - Test Method for Viscosity of Epoxy Resins and Related Components.
       35. ASTM D2697 - Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings.
       36. ASTM D2794 - Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
       37. ASTM D3278 - Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus.
       38. ASTM D3960 - Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.
       39. ASTM D4060 - Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
       40. ASTM D4226 - Standard Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products.
       41. ASTM D4366 - Standard Test Methods for Hardness of Organic Coatings by Pendulum Damping Tests
       42. ASTM D4541 - Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.
       43. ASTM D5441 - Standard Test Method for Analysis of Methyl Tert-Butyl Ether (MTBE) by Gas Chromatography.
       44. ASTM D7234 - Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers.
       45. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
       46. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
       47. ASTM F3010 - Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings
       48. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
       49. ASTM G154 - Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.
       50. ASTM G155 - Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials.
    2. Deutsches Institut fur Normung (DIN):
       1. DIN 53460 - Testing of Plastics; Determination of the Vicat Softening Temperature of Thermoplastics.
    3. International Concrete Repair Institute (ICRI):
       1. ICRI 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair.
    4. Military Specifications (MIL):
       1. MIL-D-3134J - Deck Covering Materials.
    5. National Floor Safety Institute (NFSI):
       1. ANSI/NFSI B101.1 - Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used, including properties, VOC content, wet static coefficient of friction, compressive strength, tensile strength, elongation and similar properties.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each system, including color and texture.
    2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
    3. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
    4. Manufacturer's Project References: Submit manufacturer's list of successfully completed resinous flooring system projects, including project name and location, name of architect, and type and quantity of flooring systems furnished.
    5. Applicator's Project References: Submit applicator's list of successfully completed resinous flooring system projects, including project name and location, name of architect, and type and quantity of flooring systems applied.
    6. Care and Maintenance Instructions: Submit manufacturer's care and maintenance instructions, including cleaning instructions.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
     2. Applicator's Qualifications:
        1. Applicator regularly engaged, for a minimum of 5 years, in application of resinous flooring systems of similar type to that specified.
        2. Employ persons trained for application of resinous flooring systems.
     3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
       1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
       3. Retain mock-up during construction as a standard for comparison with completed work.
       4. Do not alter or remove mock-up until work is completed or removal is authorized.
  1. PRE-INSTALLATION CONFERENCE
     1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, and batch number.
     2. Storage and Handling Requirements:
        1. Store and handle materials in accordance with manufacturer's instructions.
        2. Keep materials in manufacturer's original, unopened containers and packaging until application.
        3. Store materials in clean, dry area indoors between 65 and 80 degrees F (18 and 27 degrees C).
        4. Store materials out of direct sunlight.
        5. Keep materials from freezing.
        6. Protect materials during storage, handling, and application to prevent contamination or damage.
  3. PROJECT CONDITIONS
     1. Apply flooring system under the following ambient conditions:
        1. Ambient and Concrete Floor Temperatures: Between 65 and 85 degrees F (18 and 29 degrees C).
        2. Material Temperature: Between 65 and 85 degrees F (18 and 29 degrees C).
        3. Relative Humidity: Maximum 80 percent.
        4. Dew Point: Floor temperature more than 5 degrees over dew point.
     2. Do not apply flooring system under ambient conditions outside manufacturer's limits.
  4. WARRANTY
     1. Submit manufacturer's standard warranty.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Tennant Coatings Inc., which is located at: 1120 Exchange Ave.; Chicago, IL 60609; Toll Free Tel: 800-228-4943; Email: [request info (coatings@sherwin.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Tennant+Coatings+Inc.&coid=35973&rep=&fax=&message=RE:%20Spec%20Question%20(09670tnt):%20%20&mf=); Web: <http://www.tennantcoatings.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT MECHANICAL ROOM

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Mechanical Room, Flex-Flex-Flex-MPE-HTS 100.
         1. Flexible Primer: Eco-Flex, 3-5 mils.
         2. First Flexible Build Coat: Eco-Flex, 20 mils.
         3. Second Flexible Build Coat: Eco-Flex, 20 mils.
         4. Reinforcement Coat: Eco-MPE, 10 mils.
         5. Topcoat: Eco-HTS 100, 3 mils.
         6. Color: As selected by Architect from manufacturer's full range.
         7. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: Greater than 400 psi (2.76 MPa) concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, Epoxy, ASTM D695: 13,500 psi (93.08 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin only, ASTM D4366: 171.3.

Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure QUV, ASTM G154: Greater than 10 increase of yellow units (CEI Lab delta b). if pigmented topcoat.

Shore A Hardness, Epoxy, ASTM D2240: 85 at 0 sec, 80 at 15 sec.

Shore D Hardness, Epoxy, ASTM D2240: 40 at 0 sec, 35 at 16 sec.

Tensile Strength, 7 mils, 3-day cure, ASTM D2370: 18,530 psi (127,760 kPa).

Percent Elongation, 7 mils, 3-day cure, ASTM D2370: 125.

Volatile Organic Compounds, VOC, ASTM D3960: Eco-MPE A+B=0.41 lb/gal (49 g/L) Eco-Flex A+B=129 lb/gal (154 g/l): Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hour immersion, ASTM C413: 0.2 percent weight increase.

* + - 1. Tennant Mechanical Room DB, Flex-Flex-Flex\*-MPE\*-MPE-HTS 100.
         1. Flexible Primer: Eco-Flex, 3-5 mils.
         2. Flexible Build Coat: Eco-Flex, 20 mils.
         3. Flexible Broadcast Coat with Silica Broadcast: Eco-Flex, 20 mils.
         4. Second Broadcast Coat with Silica Broadcast: Eco-MPE, 15 mils.
         5. Reinforcement/Grout Coat: Eco-MPE, 15 mils.
         6. Topcoat: Eco-HTS 100, 3 mils.
         7. Color: As selected by Architect from manufacturer's full range.
         8. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: Greater than 400 psi (2.76 MPa) concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, Epoxy, ASTM D695: 13,500 psi (93.08 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin only, ASTM D4366: 171.3.

Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure QUV, ASTM G154: Greater than 10 increase of yellow units (CEI Lab delta b). if pigmented topcoat.

Shore A Hardness, Epoxy, ASTM D2240: 85 at 0 sec, 80 at 15 sec.

Shore D Hardness, Epoxy, ASTM D2240: 40 at 0 sec, 35 at 16 sec.

Tensile Strength, 7 mils, 3-day cure, ASTM D2370: 18,530 psi (127,760 kPa).

Percent Elongation, 7 mils, 3-day cure, ASTM D2370: 125.

Volatile Organic Compounds, VOC, ASTM D3960: Eco-MPE A+B=0.41 lb/gal (49 g/L) Eco-Flex A+B=129 lb/gal (154 g/l): Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hour immersion, ASTM C413: 0.2 percent weight increase.

* + - 1. Tennant Mechanical Room SB, FLP-FLB\*-MPE-HTS 100.
         1. Primer Coat: Eco-FLP, 5.3 mils.
         2. Base Coat with Silica Broadcast: Eco-FLB, 32 mils.
         3. Grout Coat: Eco-MPE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Mechanical Room SB: Flex-Flex-Flex\*-MPE-HTS 100.
         1. Flexible Primer: Eco-Flex, 3-5 mils.
         2. Flexible Build Coat: Eco-Flex, 20 mils.
         3. Flexible Broadcast Coat: Eco-Flex with silica broadcast, 20 mils.
         4. Reinforcement/Grout: Eco-MPE, 15 mils.
         5. Topcoat: Eco-HTS 100, 3 mils.
         6. Color: As selected by Architect from manufacturer's full range.
         7. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: Greater than 400 psi (2.76 MPa) concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, Epoxy, ASTM D695: 13,500 psi (93.08 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin only, ASTM D4366: 171.3.

Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure QUV, ASTM G154: Greater than 10 increase of yellow units (CEI Lab delta b). if pigmented topcoat.

Shore A Hardness, Epoxy, ASTM D2240: 85 at 0 sec, 80 at 15 sec.

Shore D Hardness, Epoxy, ASTM D2240: 40 at 0 sec, 35 at 16 sec.

Tensile Strength, 7 mils, 3-day cure, ASTM D2370: 18,530 psi (127,760 kPa).

Percent Elongation, 7 mils, 3-day cure, ASTM D2370: 125.

Volatile Organic Compounds, VOC, ASTM D3960: Eco-MPE A+B=0.41 lb/gal (49 g/L) Eco-Flex A+B=129 lb/gal (154 g/l): Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hour immersion, ASTM C413: 0.2 percent weight increase.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Mechanical Room DB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. First Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Second Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-HPS 100.
        5. Eco-TCP.
        6. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-HPS 100.
        5. Eco-HTS 100.
        6. Eco-TCP.
        7. Eco-TCU.
    1. Customized Systems, Tennant Mechanical Room SB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-HPS 100.
        5. Eco-TCP.
        6. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-HPS 100.
        5. Eco-HTS 100.
        6. Eco-TCP.
        7. Eco-TCU.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT SHOP FLOOR

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Shop Floor SB, MPE-MPE\*-MPE-HTS 100.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Broadcast Coat with Silica Broadcast: Eco-MPE, 10 mils.
         3. Grout Coat: Eco-MPE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ASNI/NFSI B101.1: 0.94.

Compressive Strength, D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Yellowing as Measured Using ASTM D2244, after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154: Less than 10 increase of yellowing units (CIE Lab delta b). if pigmented topcoat.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40 mm film.

Tensile Strength, ASTM D2370, 8,000 psi (55.158 MPa).

Percent Elongation, Resin, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPR A+B=0.14 lb/gal (49 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption (25 hours), ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Shop Floor DB, MPE\*-MPE\*-MPE-HTS 100.
         1. First Broadcast Coat with Silica Broadcast: Eco-MPE, 10 mils.
         2. Second Broadcast Coat with Silica Broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-MPE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties.

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ASNI/NFSI B101.1: 0.94.

Compressive Strength, D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Yellowing as Measured Using ASTM D2244, after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154: Less than 10 increase of yellowing units (CIE Lab delta b). if pigmented topcoat.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40 mm film.

Tensile Strength, ASTM D2370, 8,000 psi (55.158 MPa).

Percent Elongation, Resin, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPR A+B=0.14 lb/gal (49 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption (25 hours), ASTM D570: 0.2 percent weight increase.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Shop Floor DB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. First Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Second Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-TCP.
        6. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-HTS 100.
        6. Eco-TCP.
        7. Eco-TCU.
    1. Customized Systems, Tennant Shop Floor SB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-TCP.
        6. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-HTS 100.
        6. Eco-TCP.
        7. Eco-TCU.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT QUARTZ

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Quartz DB, MPE\*-MPE\*-UVE-HTS 100.
         1. First Broadcast Coat with decorative quartz broadcast: Eco-MPE, 10-12 mils.
         2. Second Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, ASTM D22540: 171.3.

Shore D hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 30-40.

Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).

Percent Elongation, Resin Only, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Quartz DB, MPE\*-MPE\*-UVE-UVE.
         1. First Broadcast Coat with decorative quartz broadcast: Eco-MPE, 10-12 mils.
         2. Second Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-UVE, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Quartz DB, FLEX\*-FLEX\*-TCP-TCP.
         1. First Broadcast Coat with decorative quartz broadcast: Eco-Flex, 10-12 mils.
         2. Second Broadcast Coat with decorative quartz broadcast: Eco-Flex, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 6-8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Quartz DB, MPE\*-MPE\*-TCP-TCP
         1. First Broadcast Coat with decorative quartz broadcast: Eco-MPE 10-12 mils.
         2. Second Broadcast Coat with decorative quartz broadcast: Eco-MPE 15 mils.
         3. Grout Coat: Eco-TCP 15 mils.
         4. Topcoat: Eco-TCP 15 mils.
      4. Tennant Quartz DB, TCP\*-TCP\*-TCP.
         1. First Broadcast Coat with decorative quartz broadcast: Eco-TCP, 10-12 mils.
         2. Second Broadcast Coat with decorative quartz broadcast: Eco-TCP, 15 mils.
         3. Topcoat: Eco-TCP, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      5. Tennant Quartz TQ, MPE-MPE\*\*-UVE-UVE-HTS 100.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Troweled Quartz: Eco-MPE plus Quartz-Trowel-Grade, 3/16 inches.
         3. Grout Coat: Eco-UVE, 10 mils.
         4. Build Coat: Eco-UVE, 8 mils.
         5. Topcoat: Eco-HTS 100, 3 mils.
         6. Color: As selected by Architect from manufacturer's full range.
         7. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, ASTM D22540: 171.3.

Shore D hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 30-40.

Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).

Percent Elongation, Resin Only, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Quartz TQ, MPE-MPE\*\*-UVE-UVE-UVE.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Troweled Quartz: Eco-MPE + Quartz-Trowel-Grade, 3/16 inches.
         3. Grout Coat: Eco-UVE, 10 mils.
         4. Build Coat: Eco-UVE, 8 mils.
         5. Topcoat: Eco-UVE, 6-8 mils.
         6. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Quartz TQ, MPE-MPE\*\*-UVE-UVE-TCP.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Troweled Quartz: Eco-MPE plus Quartz-Trowel-Grade, 3/16 inches.
         3. Grout Coat: Eco-UVE, 10 mils.
         4. Build Coat: Eco-UVE, 8 mils.
         5. Topcoat: Eco-TCP, 6-8 mils.
         6. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Quartz DB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. First Broadcast Coat (Colored Quartz):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
        4. Eco-UVE.
      1. Second Broadcast Coat (Colored Quartz):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
        4. Eco-UVE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.
    1. Customized Systems, Tennant Quartz TQ:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Eco-MPE.
      3. Troweled Quartz: Eco-DQS Troweled.
      4. Seal Coat: Eco-UVE.
      5. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT FLAKE

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Flake SB, MPE-MPE\*-UVE-HTS 100.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE pigmented, 10-12 mils.
         3. Grout Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, ASTM D22540: 171.3.

Shore D hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 30-40.

Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).

Percent Elongation, Resin Only, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Flake SB, MPE-MPE\*-UVE-UVE.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE pigmented, 10-12 mils.
         3. Grout Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-UVE, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Flake SB, MPE-MPE\*-TCP-TCP.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE pigmented, 10-12 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Flake DB, MPE\*-MPE\*-UVE-HTS 100.
         1. First Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE pigmented, 10-12 mils.
         2. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, ASTM D22540: 171.3.

Shore D hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 30-40.

Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).

Percent Elongation, Resin Only, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Flake DB, MPE\*-MPE\*-UVE-UVE.
         1. First Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE pigmented, 10-12 mils.
         2. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-UVE, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Flake DB, MPE\*-MPE\*-TCP-TCP.
         1. First Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE pigmented, 10-12 mils.
         2. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Flake DB, Flex-Flex-TCP-TCP.
         1. First Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-Flex pigmented, 10-12 mils.
         2. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-Flex, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 15 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      4. Tennant Flake DB, TCP\*-TCP\*-TCP.
         1. First Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro) Eco-TCP pigmented, 10-12 mils.
         2. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-TCP, 15 mils.
         3. Topcoat: Eco-TCP, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      5. Tennant Flake DQF, MPE\*(DQ)-MPE\*(DF)-UVE-UVE.
         1. First Broadcast Coat with decorative quartz broadcast: Eco-MPE, 10-12 mils.
         2. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-TCP, 15 mils.
         3. Grout Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-UVE, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.59.

Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).

Shore D hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).

Percent Elongation, Resin Only, ASTM D2370: 5 percent.

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Flake DQF, MPE\*(DQ)-TCP\*(DF)-TCP-TCP.
         1. First Broadcast Coat with decorative quartz broadcast: Eco-MPE, 10-12 mils.
         2. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-TCP, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Flake RB, MPE-UVE\*-HTS 100.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Random Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-UVE pigmented, 15 mils.
         3. Topcoat: Eco-HTS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, ASTM D22540: 171.3.

Shore D hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 30-40.

Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).

Percent Elongation, Resin Only, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, lb/gal (g/l), ASTM D3960L: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Flake RB, MPE-UVE\*-UVE.
         1. Primer Coat pigmented: Eco-MPE, 3-5 mils.
         2. Random Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-UVE pigmented, 15 mils.
         3. Topcoat: Eco-UVE, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Flake RB, MPE-TCP\*-TCP.
         1. Primer Coat pigmented: Eco-MPE, 3-5 mils.
         2. Random Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-TCP pigmented, 15 mils.
         3. Topcoat: Eco-TCP, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Flake DB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. First Broadcast Coat (Flake):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
        4. Eco-UVE.
      1. Second Broadcast Coat (Flake):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
        4. Eco-UVE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.
    1. Customized Systems, Tennant Flake DQF:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Quartz Broadcast Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
        4. Eco-UVE.
      1. Flake Broadcast Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-UVE.
      1. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.
    1. Customized Systems, Tennant Flake RB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Random Broadcast Coat (Flake):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-GPE.
        3. Eco-UVE.
      1. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.
    1. Customized Systems, Tennant Flake SB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Broadcast Coat (Flake):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT HEAVY DUTY

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Heavy Duty, MPE-PT250-PT TOPCOAT-PT TOPCOAT.
         1. Primer Coat: Eco-MPE 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Topcoat: Eco-PT Topcoat, 6-8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Heavy Duty, MPE-PT250-PT TOPCOAT-MPE-HTS 100.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Build Coat: Eco-MPE, 6-8 mils.
         5. Topcoat: Eco-HTS 100, 3 mils.
         6. Color: As selected by Architect from manufacturer's full range.
         7. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234, 732 psi (4.48 MPa).

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NSFI B101.1: 0.94.

Coefficient of Thermal Linear Expansion, ASTM D696: 5.39 x 10^5 mm/mm/degree C.

Compression Strength, Binder Resin, ASTM D695: 13,500 psi (93.08 MPa).

Compressive Strength, ASTM C579: 10,000 psi (68.95 MPa).

Flammability, ASTM D635: 182 mm/min.

Izod Impact Strength, ASTM D256: 0.26 lb/in (45.53 N/m).

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154: Less than 10 increase of yellow units (CIE Lab delta b). if pigmented topcoat.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40.

Tensile Strength, Binder Resin, ASTM D2370: 8,000 psi (55.16 MPa).

Percent Elongation, Binder Resin, ASTM D2370: 6 percent.

Tensile Strength, ASTM C307: 1,690 psi (11.65 MPa).

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-PT Topcoat A+B= 0.44 lb/gal (53 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Heavy Duty, MPE-PT250-PT TOPCOAT-MPE-TCP.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Build Coat: Eco-MPE, 6-8 mils.
         5. Topcoat: Eco-TCP, 3 mils.
         6. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Heavy Duty Quartz, MPE-PT250-PT TOPCOAT-MPE\*-UVE-HTS 100.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         5. Grout Coat: Eco-UVE, 15-16 mils.
         6. Topcoat: Eco-HTS 100, 3 mils.
         7. Color: As selected by Architect from manufacturer's full range.
         8. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa).

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NSFI B101.1: 0.94.

Coefficient of Thermal Linear Expansion, ASTM D696: 5.39 x 10^-5 mm/mm/degrees C.

Compression Strength, Binder Resin, ASTM D695: 13,500 psi (93.08 MPa).

Compressive Strength, ASTM C579: 10,000 psi (68.95 MPa).

Flammability, ASTM D635: 182 mm/min.

Izod Impact Strength, ASTM D256: 0.26 lb/in (45.53 N/m).

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40.

Tensile Strength, Binder Resin, ASTM D2370: 8,000 psi (55.16 MPa).

Percent Elongation, Binder Resin, ASTM D2370: 6 percent.

Tensile Strength, ASTM C307: 1,690 psi (11.65 MPa).

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-PT Topcoat A+B= 0.44 lb/gal (53 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Heavy Duty Quartz, MPE-PT250-PT TOPCOAT-MPE\*-UVE-UVE.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         5. Grout Coat: Eco-UVE, 15-16 mils.
         6. Topcoat: Eco-UVE, 8 mils.
         7. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Heavy Duty Quartz, MPE-PT250-PT TOPCOAT-MPE\*-UVE-TCP.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         5. Grout Coat: Eco-UVE, 15-16 mils.
         6. Topcoat: Eco-TCP, 8 mils.
         7. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Heavy Duty Quartz, MPE-PT250-PT TOPCOAT-MPE\*-TCP-TCP.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         5. Grout Coat: Eco-TCP, 15 mils.
         6. Topcoat: Eco-TCP, 8 mils.
         7. Color: As selected by Architect from manufacturer's full range.
      4. Tennant Heavy Duty Flake, MPE-PT250-PT TOPCOAT-MPE\*-UVE-HTS 100.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat pigmented with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         5. Grout Coat: Eco-UVE, 15-16 mils.
         6. Topcoat: Eco-HTS 100, 3 mils.
         7. Color: As selected by Architect from manufacturer's full range.
         8. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa).

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NSFI B101.1: 0.94.

Coefficient of Thermal Linear Expansion, ASTM D696: 5.39 x 10^-5 mm/mm/C.

Compression Strength, Binder Resin, ASTM D695: 13,500 psi (93.08 MPa).

Compressive Strength, ASTM C579: 10,000 psi (68.95 MPa).

Flammability, ASTM D635: 182 mm/min.

Izod Impact Strength, ASTM D256: 0.26 lb/in (45.53 N/m).

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40.

Tensile Strength, Binder Resin, ASTM D2370: 8,000 psi (55.16 MPa).

Percent Elongation, Binder Resin, ASTM D2370: 6 percent.

Tensile Strength, ASTM C307: 1,690 psi (11.65 MPa).

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-PT Topcoat A+B= 0.44 lb/gal (53 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Tennant Heavy Duty Flake, MPE-PT250-PT TOPCOAT-MPE\*-UVE-UVE.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat pigmented with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         5. Grout Coat: Eco-UVE, 15-16 mils.
         6. Topcoat: Eco-UVE, 8 mils.
         7. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Heavy Duty Flake, MPE-PT250-PT TOPCOAT-MPE\*-UVE-TCP.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat pigmented with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         5. Grout Coat: Eco-UVE, 15-16 mils.
         6. Topcoat: Eco-TCP, 15 mils.
         7. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Heavy Duty Flake, MPE-PT250-PT TOPCOAT-MPE\*-TCP-TCP.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat pigmented with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         5. Grout Coat: Eco-TCP, 15 mils.
         6. Topcoat: Eco-TCP, 8 mils.
         7. Color: As selected by Architect from manufacturer's full range.
      4. Tennant Heavy Duty Shop Floor DB: MPE-PT 250-PT Topcoat-MPE\*-MPE\*-MPE-HTS 100.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. First Broadcast Coat with Silica Sand: Eco-MPE, 10 mils.
         5. Second Broadcast Coat with Silica Sand: Eco-MPE 15 mils.
         6. Grout Coat: Eco-MPE, 15 mils.
         7. Topcoat: Eco-HTS 100, 3 mils.
         8. Color: As selected by Architect from manufacturer's full range.
         9. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa).

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NSFI B101.1: 0.94.

Coefficient of Thermal Linear Expansion, ASTM D696: 5.39 x 10^-5 mm/mm/C.

Compression Strength, Binder Resin, ASTM D695: 13,500 psi (93.08 MPa).

Compressive Strength, ASTM C579: 10,000 psi (68.95 MPa).

Flammability, ASTM D635: 182 mm/min.

Izod Impact Strength, ASTM D256: 0.26 lb/in (45.53 N/m).

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40.

Tensile Strength, Binder Resin, ASTM D2370: 8,000 psi (55.16 MPa).

Percent Elongation, Binder Resin, ASTM D2370: 6 percent.

Tensile Strength, ASTM C307: 1,690 psi (11.65 MPa).

Volatile Organic Compound, VOC, ASTM D3960: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-PT Topcoat A+B= 0.44 lb/gal (53 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L).

* + - 1. Tennant Heavy Duty Shop Floor SB: MPE-PT 250-PT Topcoat-MPE\*-MPE-HTS 100.
         1. Primer Coat: Eco-MPE, 7-9 mils.
         2. Mortar: Eco-PT 250, 3/16 to 1/4 inches.
         3. Grout Coat: Eco-PT Topcoat, 5-8 mils.
         4. Broadcast Coat with silica sand: Eco-MPE, 15 mils.
         5. Grout Coat: Eco-MPE, 15 mils.
         6. Topcoat: Eco-HTS 100, 3 mils.
         7. Color: As selected by Architect from manufacturer's full range.
         8. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa).

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NSFI B101.1: 0.94.

Coefficient of Thermal Linear Expansion, ASTM D696: 5.39 x 105 mm/mm/C.

Compression Strength, Binder Resin, ASTM D695: 13,500 psi (93.08 MPa).

Compressive Strength, ASTM C579: 10,000 psi (68.95 MPa).

Flammability, ASTM D635: 182 mm/min.

Izod Impact Strength, ASTM D256: 0.26 lb/in (45.53 N/m).

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40.

Tensile Strength, Binder Resin, ASTM D2370: 8,000 psi (55.16 MPa).

Percent Elongation, Binder Resin, ASTM D2370: 6 percent.

Tensile Strength, ASTM C307: 1,690 psi (11.65 MPa).

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Heavy Duty:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Eco-MPE.
      3. Mortar: Eco-PT 250.
      4. Seal Coat: Eco-PT Topcoat.
      5. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CRN.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.
    1. Customized Systems, Tennant Heavy Duty Flake:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Eco-MPE.
      3. Mortar: Eco-PT 250.
      4. Seal Coat: Eco-PT Topcoat.
      5. Broadcast Coat pigmented with decorative vinyl flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.
    1. Customized Systems, Tennant Heavy Duty Quartz:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Eco-MPE.
      3. Mortar: Eco-PT 250.
      4. Seal Coat: Eco-PT Topcoat.
      5. Broadcast Coat with decorative quartz broadcast:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-TCP.
        4. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-UVE.
        2. Eco-HPS 100.
        3. Eco-HTS 100.
        4. Eco-TCP.
        5. Eco-TCU.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Heavy Duty Shop Floor DB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. First Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Second Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-TCP.
        6. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-HTS 100.
        6. Eco-TCP.
        7. Eco-TCU.
    1. Customized Systems, Tennant Heavy Duty Shop Floor SB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Broadcast Coat (Silica):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-Flex.
        3. Eco-GPE.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-TCP.
        6. Eco-TCU.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-CRN.
        4. Eco-CRU.
        5. Eco-HTS 100.
        6. Eco-TCP.
        7. Eco-TCU.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE MF

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:
       1. Eco-Crete MF, TC-MF.
          1. Primer Coat: Eco-Crete TC, 13.33 mils.
          2. Mortar: Eco-Crete MF, 3/16 inches.
          3. Color: As selected by Architect from manufacturer's full range.
          4. System Properties:

Bond Strength, ASTM D4541: 100 percent concrete failure.

Compressive Strength, ASTM C579, 7,200 psi (49.6 MPa).

Flammability, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,700 psi (18.6 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Tensile Strength, ASTM C307: 1,050 psi (7.2 MPa).

Volatile Organic Compound, VOC, ASTM D3960L: A+B+C=0.04 lb/gal (5 g/L).

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete options not required. Delete if not required.

* + 1. Customized Systems, Tennant Eco-Crete MF:
       1. Waterproofing: Eco-Flex.
       2. Flexible Primer: Eco-Flex.
       3. Primer: Eco-Crete TC.
       4. Mortar: Eco-Crete MF.
       5. Top Coat: Eco-Crete TC.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE SL

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Eco-Crete SL, SL\*-TC.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SL, 1/8 inch.
         2. Topcoat: Eco-Crete TC, 13.33 mils.
         3. Color: As selected by Architect from manufacturer's full range.
         4. System Properties:

Bond Strength, ASTM D4541: 100 percent concrete failure.

Compressive Strength, ASTM C570: 8,400 psi (57.9 MPa).

Flammability, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,700 psi (18.6 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Tensile Strength, ASTM C307: 1,050 psi (7.2 MPa).

Volatile Organic Compound, VOC, ASTM D3960L: A+B+C=0.04 lb/gal (5 g/L).

* + - 1. Eco-Crete SL, SL\*-UVE.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SL, 1/8 inch.
         2. Topcoat: Eco-UVE, 15 mils.
         3. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SL, SL\*-TCP.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SL, 1/8 inch.
         2. Topcoat: Eco-TCP, 15 mils.
         3. Color: As selected by Architect from manufacturer's full range.
      3. Eco-Crete SL DB,SL\*-MPE\*-MPE-HTS 100.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast coat with Silica Broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-MPE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,400 psi (57.9 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,700 psi (18.6 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, Rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 1,050 psi (7.2 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SL A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.019 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SL DB, SL\*-MPE\*-TCP-TCP.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast coat with Silica Broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SL DB, SL\*-MMA BODY\*-MMA TOP-MMA TOP.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast coat with Silica Broadcast: Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 12.8 mils.
         5. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Eco-Crete SL:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Silica Sand Broadcast: Eco-Crete SL.
       4. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CRN.
        2. Eco-MPE.
        3. Eco-UVE.
        4. Eco-HPS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-Crete TC.
        2. Eco-CRN.
        3. Eco-MPE
        4. Eco-UVE.
        5. Eco-HPS 100.
        6. Eco-HTS 100.
        7. Eco-TCP.
        8. Eco-TCU.
        9. Tennant MMA Topcoat.
    1. Customized Systems, Tennant Eco-Crete SL DB:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Silica Sand Broadcast: Eco-Crete SL.
       4. Second Broadcast Coat (silica):
          1. Eco-GPE.
          2. Eco-MPE.
          3. Eco-UVE.
          4. Eco-HPS 100.
          5. Eco-TCP.
          6. Eco-TCU.
       5. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CRN.
        2. Eco-MPE.
        3. Eco-UVE.
        4. Eco-HPS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-Crete TC.
        2. Eco-CRN.
        3. Eco-MPE
        4. Eco-UVE.
        5. Eco-HPS 100.
        6. Eco-HTS 100.
        7. Eco-TCP.
        8. Eco-TCU.
        9. Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE SL QUARTZ

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Eco-Crete SL Quartz, SL\*-UVE-HTS 100.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SL, 1/8 inch.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-HTS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,400 psi (57.9 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,700 psi (18.6 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 1,050 psi (7.2 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SL A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SL Quartz, SL\*-UVE-UVE.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SL, 1/8 inch.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-UVE, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SL Quartz, SL\*-UVE-TCP.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SL, 1/8 inch.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-TCP, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Eco-Crete SL Quartz DB, SL\*-MPE\*-UVE-HTS 100.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15-16 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,400 psi (57.9 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,700 psi (18.6 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 1,050 psi (7.2 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SL A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SL Quartz DB, SL\*-MPE\*-TCP-TCP.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SL Quartz DB, SL\*-MMA BODY\*-MMA TOP-MMA TOP.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast Coat with decorative quartz broadcast: Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 12.8 mils.
         5. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Eco-Crete SL Quartz:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Quartz Broadcast: Eco-Crete SL.
       4. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
    1. Customized Systems, Tennant Eco-Crete SL Quartz DB:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Quartz Broadcast: Eco-Crete SL.
       4. Second Broadcast Coat (colored quartz):
          1. Eco-MPE.
          2. Eco-UVE.
          3. Eco-HPS 100.
          4. Eco-TCP.
          5. Eco-TCU.
          6. Tennant MMA Topcoat.
       5. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE SL FLAKE

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Eco-Crete SL Flake, SL\*-UVE-HTS 100.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SL, 1/8 inch.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-HTS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,400 psi (57.9 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,700 psi (18.6 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 1,050 psi (7.2 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SL A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L)

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SL Flake, SL\*-UVE-UVE.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SL, 1/8 inch.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-UVE, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SL Flake, SL\*-UVE-TCP.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SL, 1/8 inch.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-TCP, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Eco-Crete SL Flake DB, SL\*-MPE\*-UVE-HTS 100.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15-16 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,400 psi (57.9 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,700 psi (18.6 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 1,050 psi (7.2 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SL A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SL Flake DB, SL\*-MPE\*-TCP-TCP.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Grout Coat: Eco-TCP, 8 mils.
         4. Topcoat: Eco-TCP, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SL Flake DB, SL\*-MMA BODY\*-MMA TOP-MMA TOP.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SL, 1/8 inch.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 12.8 mils.
         5. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Eco-Crete SL Flake:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Flake Broadcast: Eco-Crete SL.
       4. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
    1. Customized Systems, Tennant Eco-Crete SL Flake DB:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Flake Broadcast: Eco-Crete SL.
       4. Second Broadcast Coat (flake):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE SF

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Eco-Crete SF, SF\*-TC.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SF, 1/4 inches.
         2. Topcoat: Eco-Crete TC, 13.33 mils.
         3. Color: As selected by Architect from manufacturer's full range.
         4. System Properties:

Bond Strength, ASTM D4541: 100 percent concrete failure.

Compressive Strength, ASTM C579: 8,200 psi (56.5 MPa).

Flammability, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2.500 psi (17.2 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Tensile Strength, ASTM C307: 975 psi (6.72 MPa).

Volatile Organic Compound, VOC, ASTM D3960L: A+B+C=0.04 lb/gal (5 g/L).

* + - 1. Eco-Crete SF, SF\*-UVE.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SF, 1/4 inches.
         2. Topcoat: Eco-UVE, 15 mils.
         3. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SF, SF\*-TCP.
         1. Slurry with Silica Sand Broadcast: Eco-Crete SF, 1/4 inches.
         2. Topcoat: Eco-TCP, 15 mils.
         3. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Eco-Crete SF:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Silica Sand Broadcast: Eco-Crete SF.
       4. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CRN.
        2. Eco-MPE.
        3. Eco-UVE.
        4. Eco-HPS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-Crete SF.
        2. Eco-CRN.
        3. Eco-MPE
        4. Eco-UVE.
        5. Eco-HPS 100.
        6. Eco-HTS 100.
        7. Eco-TCP.
        8. Eco-TCU.
        9. Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE SF QUARTZ

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Eco-Crete SF Quartz, SF\*-UVE-HTS 100.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SF, 1/4 inches.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-HTS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,200 psi (56.5 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,500 psi (17.2 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 975 psi (6.72 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SF A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SF Quartz, SF\*-UVE-UVE.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SF, 1/4 inches.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-UVE, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SF Quartz, SF\*-UVE-TCP.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SF, 1/4 inches.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-TCP, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Eco-Crete SF Quartz DB, SF\*-MPE\*-UVE-HTS 100.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SF, 1/4 inches.
         2. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15-16 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,200 psi (56.5 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,500 psi (17.2 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 975 psi (6.72 MPa)

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SF A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SF Quartz DB, SF\*-MPE\*-TCP-TCP.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SF, 1/4 inches.
         2. Broadcast Coat with decorative quartz broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 12.8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SF Quartz DB, SF\*-MMA BODY\*-MMA TOP-MMA TOP.
         1. Slurry with Decorative Quartz Broadcast: Eco-Crete SF, 1/4 inches.
         2. Broadcast Coat with decorative quartz broadcast: Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 12.8 mils.
         5. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Eco-Crete SF Quartz:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Quartz Broadcast: Eco-Crete SF.
       4. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
    1. Customized Systems, Tennant Eco-Crete SF Quartz DB:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Quartz Broadcast: Eco-Crete SF.
       4. Second Broadcast Coat (colored quartz):
          1. Eco-MPE.
          2. Eco-UVE.
          3. Eco-HPS 100.
          4. Eco-TCP.
          5. Eco-TCU.
          6. Tennant MMA Topcoat.
       5. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE SF FLAKE

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Eco-Crete SF Flake, SF\*-UVE-HTS 100.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SF, 1/4 inches.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-HTS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,200 psi (56.5 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,500 psi (17.2 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 975 psi (6.72 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SF A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SF Flake, SF\*-UVE-UVE.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SF, 1/4 inches.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-UVE, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SF Flake, SF\*-UVE-TCP.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SF, 1/4 inches.
         2. Grout Coat: Eco-UVE, 15-16 mils.
         3. Topcoat: Eco-TCP, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Eco-Crete SF Flake DB, SF\*-MPE\*-UVE-HTS 100.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SF, 1/4 inches.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Grout Coat: Eco-UVE, 15-16 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/SFSI B101.1: 0.94.

Compressive Strength, ASTM C579: 8,200 psi (56.5 MPa).

Compressive Strength, ASTM C695: 13,500 psi (93.079 MPa).

Flammability, Topcoat 182 mm/min, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 2,500 psi (17.2 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin, ASTM D4366: 171.3.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Shore D Hardness, Seed/Grout Coat, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength, ASTM C307: 975 psi (6.72 MPa).

Tensile Strength, Seed/Grout Coat, ASTM D2370: 9,500 psi (65.500 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-Crete SF A+B+C=0.04 lb/gal (5 g/L) Eco-UVE A+B=0.19 lb/gal (23 g/L) Eco-HTS 100 A+B+C=0.055 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

* + - 1. Eco-Crete SF Flake DB, SF\*-MPE\*-TCP-TCP.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SF, 1/4 inches.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Grout Coat: Eco-TCP, 15 mils.
         4. Topcoat: Eco-TCP, 8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete SF Flake DB, SF\*-MMA BODY\*-MMA TOP-MMA TOP.
         1. Slurry with Decorative Flake Broadcast: Eco-Crete SF, 1/4 inches.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 12.8 mils.
         5. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Eco-Crete SF Flake:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Flake Broadcast: Eco-Crete SF.
       4. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
    1. Customized Systems, Tennant Eco-Crete SF Flake DB:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Slurry with Decorative Flake Broadcast: Eco-Crete SF.
       4. Second Broadcast Coat (flake):
          1. Eco-MPE.
          2. Eco-UVE.
          3. Eco-HPS 100.
          4. Eco-TCP.
          5. Eco-TCU.
          6. Tennant MMA Topcoat.
       5. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE HF

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Eco-Crete HF, HF.
         1. Mortar: Eco-Crete HF, 1/4 inches.
         2. Color: As selected by Architect from manufacturer's full range.
      2. Eco-Crete HF Flake DB, HF\*-MPE\*-TCP-TCP.
         1. Mortar with Decorative Flake Broadcast: Eco-Crete HF, 1/4 inches.
         2. Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-MPE, 15 mils.
         3. Topcoat: Eco-TCP, 12-15 mils.
         4. Topcoat: Eco-TCP, 6-8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      3. Eco-Crete HF Quartz DB, HF\*-MPE\*-TCP-TCP.
         1. Mortar with Decorative Quartz Broadcast: Eco-Crete HF, 1/4 inches.
         2. Broadcast Coat with Decorative Quartz Broadcast: Eco-MPE, 15 mils.
         3. Grout Coat: Eco-TCP, 12-14 mils.
         4. Topcoat: Eco-TCP, 6-8 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 43 mg loss.

Bond Strength, ASTM D4541: 100 percent concrete failure.

Coefficient of Friction-Wet Static, BOT 3000, ASNI/NFSI B101.1: 0.99.

Compressive Strength, ASTM C579, 7,800 psi (53.8 MPa).

Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: Self-extinguishing.

Flexural Strength, ASTM C580: 1,900 psi (10.34 MPa).

Impact Strength, ASTM D4226: Greater than 160 in-lb.

Resistance to Fungi Growth, ASTM G21: Passes, rating of 1.

Resistance to Yellowing as measures using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QVU, ASTM G154: Less than 20 increase of yellow units (CIE Lab delta b).

Shore D Hardness, Seed Coat, ASTM D2240: 80-85 at 0 Sec, 75-80 at 15 sec.

Tensile Strength, ASTM C307: 975 psi (6.72 MPa).

Tensile Strength, Seed Coat, ASTM D2370: 8,000 psi (56.158 MPa).

Percent Elongation, Topcoat Resin, ASTM D2370: 8 percent.

Thermal Stability/Heat Resistance (grout/topcoat), MIL-D-3134J Section 4.6.3: No slip/flow, softening or change in appearance.

Volatile Organic Compound, VOC, lb/gal (g/l), ASTM D3960L: Eco-Crete HF A+B+C=0.04 lb/gal (5 g/L) Eco-MPE A+B= 0.41 lb/gal (49 g/L) Eco-TCP A+B=0.30 lb/gal (37 g/L).

Water Absorption, 24 hrs, ASTM C413: 0.2 percent weight increase.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Eco-Crete HF:
       1. Waterproofing: Eco-Flex.
       2. Mortar: Eco-Crete HF.
       3. Top Coat: Eco-Crete TC.
    2. Customized Systems, Tennant Eco-Crete HF Flake DB:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Mortar with Decorative Flake Broadcast: Eco-Crete HF.
       4. Second Broadcast Coat (flake):
          1. Eco-MPE.
          2. Eco-UVE.
          3. Eco-HPS 100.
          4. Eco-TCP.
          5. Eco-TCU.
          6. Tennant MMA Topcoat.
       5. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.
    1. Customized Systems, Tennant Eco-Crete HF Quartz DB:
       1. Waterproofing: Eco-Flex.
       2. Primer: Eco-Flex.
       3. Mortar with Decorative Quartz Broadcast: Eco-Crete HF.
       4. Second Broadcast Coat (colored quartz):

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Grout Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE.
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-TCP.
        5. Eco-TCU.
        6. Tennant MMA Topcoat.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MPE
        2. Eco-UVE.
        3. Eco-HPS 100.
        4. Eco-HTS 100.
        5. Eco-TCP.
        6. Eco-TCU.
        7. Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ECO-CRETE IF

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:
       1. Eco-Crete IF, IF.
          1. Mortar: Eco-Crete IF, 1/4 to 3/8 inches.
          2. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete options not required Delete if not required.

* + 1. Customized Systems, Tennant Eco-Crete IF:
       1. Waterproofing: Eco-Flex.
       2. Base Coat: Eco-Crete IF.
       3. Top Coat: Eco-Crete TC.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT WALL

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Wall Glaze, MPE-PT Topcoat-PT Topcoat-UVE with Fumed Silica.
         1. Primer: Eco-MPE, 4 mils.
         2. Base Coat: Eco-PT Topcoat, 6 mils.
         3. Build Coat: Eco-PT Topcoat, 6 mils.
         4. Topcoat: Eco-UVE with Fumed Silica, 6 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Wall Glaze, MPE-PT Topcoat-PT Topcoat-HTS 100.
         1. Primer: Eco-MPE, 4 mils.
         2. Base Coat: Eco-PT Topcoat, 6 mils.
         3. Build Coat: Eco-PT Topcoat, 6 mils.
         4. Topcoat: Eco-HTS 100, 2.7 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Substrate/Bond Strength, tested on CMU block, drywall and cement board, ASTM D4541: Substrate failure.

Flammability/Rate of Burn, ASTM D635: 182 mm/min.

Flexural Strength, Test Span 1 inch (25 mm), 0.04 in/min, Specimen Size 0.5 inch x 5 inches, ASTM D790: 4015 psi; 2.00 percent strain at yield modulus 192 ksi.

Impact Resistance, Tested on Steel Panel, ASTM D2794: Minimum 28 in-lbs with average of 35.6 in-lbs.

Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154: Less than 10 increase to yellow units (CIE delta b).

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength and Elongation, Type 1 Die, 0.2 in/min Test Speed with Elongation Based on Crosshead Movement, ASTM D638: 2895 psi; 3.07 percent elongation, modulus 192 ksi.

Thermal Shock Resistance, 15-Thermal Shock Cycles with System on CMU Block, Surface Chilled with Ice Water Followed by Immediate Shock with Boiling Water, Internal Test: No cracking, blistering of loss of adhesion to substrate.

Thermal Stability/Heat Resistance, tested on steel panel, 5 hours at 158 degrees F, MIL-D-3134J, Section 4.6.3: No slip/flow, no softening or change in appearance.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-MPE A+B=0.41 lb/gal (49 g/L) Eco-PT Topcoat A+B=0.44 lb/gal (53 g/L) Eco-HTS 100 A+B+C=0.05 lb/gal (6 g/L) Eco-UVE with Fumed Silica A+B=0.08 lb/gal (96 g/L).

Water Absorption, 24 hr immersion, ASTM D570: 1.73 percent.

* + - 1. Tennant Wall TQ, MPE-PT Topcoat\*-PT Topcoat-MPE\*\*-UVE with Fumed Silica-UVE with Fumed Silica-HTS 100.
         1. Primer Coat: Eco-MPE, 4 mils.
         2. Broadcast Coat with Quartz, Trowel Grade: Eco-PT Topcoat, 6 mils.
         3. Primer: Eco-PT Topcoat, 6 mils.
         4. Troweled Quartz: MPE + Quartz Trowel-grade, 1/16 inch.
         5. Grout Coat: Eco-UVE with fumed silica 6 mils.
         6. Build Coat: Eco-UVE with fumed silica 6 mils.
         7. Topcoat: Eco-HTS 100 2.7 mils.
         8. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Wall TQ: MPE-PT Topcoat\*-PT Topcoat-MPE\*\*-TCU with Fumed Silica-TCU with Fumed Silica-HTS 100.
         1. Primer Coat: Eco-MPE, 4 mils.
         2. Broadcast Coat with Decorative Quartz: Eco-PT Topcoat 6 mils.
         3. Primer: Eco-PT Topcoat, 6 mils.
         4. Troweled Quartz: MPE + Quartz Trowel-grade, 1/16 inch.
         5. Grout Coat: Eco-TCU with Fumed Silica, 6 mils.
         6. Build Coat: Eco-TCU with Fumed Silica, 6 mils.
         7. Topcoat: Eco-HTS 100, 2.7 mils.
         8. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Wall DF, MPE-PT Topcoat\*-UVE\* with Fumed Silica-UVE with Fumed Silica-HTS 100.
         1. Primer Coat: Eco-MPE, 4 mils.
         2. First Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-PT Topcoat, 6 mils.
         3. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-UVE with Fumed Silica, 6 mils.
         4. Grout Coat: Eco-UVE with Fumed Silica, 6 mils.
         5. Topcoat: Eco-HTS 100, 2.7 mils.
         6. Color: As selected by Architect from manufacturer's full range.
      4. Tennant Wall DF, MPE-PT Topcoat\*-UVE\* with Fumed Silica-UVE with Fumed Silica-UVE with Fumed Silica.
         1. Primer Coat: Eco-MPE, 4 mils.
         2. First Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-PT Topcoat, 6 mils.
         3. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Eco-UVE with Fumed Silica, 6 mils.
         4. Grout Coat: Eco-UVE with Fumed Silica, 6 mils.
         5. Topcoat: Eco-UVE with Fumed Silica, 6 mils.
         6. Color: As selected by Architect from manufacturer's full range.
      5. Tennant Wall Reinforced, MPE- PT Topcoat-PT Topcoat with Fiberglass Mat-UVE with Fumed Silica-HTS 100.
         1. Primer Coat: Eco-MPE, 4 mils.
         2. Base Coat: Eco-PT Topcoat, 6 mils.
         3. Reinforced Mat Receiving Coat: Eco-PT Topcoat with 3/4 ounce mat unwoven, 16 mils.
         4. Grout Coat: Eco-UVE with Fumed Silica, 6 mils.
         5. Topcoat: Eco-HTS 100, 2.7 mils.
         6. Color: As selected by Architect from manufacturer's full range.
         7. System Properties:

Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Substrate/Bond Strength, Tested on CMU Block, Drywall and Cement Board, ASTM D4541: Substrate failure.

Flammability/Rate of Burn, ASTM D635: 182 mm/min.

Flexural Strength, Test Span 1 inch, 0.04 in/min, Specimen Size 0.5 inch x 5 inches, ASTM D790: 4015 psi; 2.00 percent strain at yield modulus 192 ksi.

Impact Resistance, Tested on Steel Panel, ASTM D2794: Minimum 28 in-lbs. with average of 35.6 in-lbs.

Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154: Less than 10 increase to yellow units (CIE delta b).

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 70-85 at 15 sec.

Tensile Strength and Elongation, Type 1 Die, 0.2 in/min Test Speed with Elongation Based on Crosshead Movement, ASTM D638, 2895 psi. 3.07 percent elongation, modulus 192 ksi.

Thermal Shock Resistance, 15-Thermal Shock Cycles With System On CMU Block, Surface Chilled With Ice Water Followed By Immediate Shock With Boiling Water, Internal Test: No cracking, blistering of loss of adhesion to substrate.

Thermal Stability/Heat Resistance, Tested on Steel Panel (5 hours at 158 degrees F), MIL-D-3134J, Section 4.6.3: No slip/flow, no softening or change in appearance.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-MPE A+B=0.41 lb/gal (49 g/L) Eco-PT Topcoat A+B=0.44 lb/gal (53 g/L) Eco-HTs 100 A+B+C=0.05 lb/gal (6 g/L) Eco-UVE with Fumed Silica A+B=0.08 lb/gal (96 g/L).

Water Absorption, 24 hr immersion, ASTM D570: 1.73 percent.

* + - 1. Tennant Wall Reinforced, MPE-PT Topcoat-PT Topcoat with Fiberglass Mat-UVE with Fumed Silica-UVE with Fumed Silica.
         1. Primer: Eco-MPE, 4 mils.
         2. Base Coat: Eco-PT Topcoat, 6 mils.
         3. Reinforced Mat Receiving Coat: Eco-PT Topcoat with 3/4 ounce mat, unwoven, 16 mils.
         4. Grout Coat: Eco-UVE with Fumed Silica, 6 mils.
         5. Topcoat: Eco-UVE with Fumed Silica, 6 mils.
         6. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Wall DF:
       1. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Top Coat: Eco-HPS 100.
    1. Customized Systems, Tennant Wall TQ:
       1. Top Coat: Eco-HPS 100.
    2. Customized Systems for Tennant Wall Glaze.
    3. Customized Systems for Tennant Wall Reinforced.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT PERFORMANCE

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Performance CRU, MPE-MPE-CRU.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Build Coat: Eco-MPE, 7-13 mils.
         3. Topcoat: Eco-CRU, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Performance CRU, RCE-RCE-CRU.
         1. Primer Coat: Eco-RCE, 3-5 mils.
         2. Build Coat: Eco-RCE, 7-13 mils.
         3. Topcoat: Eco-CRU, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Performance CRU, RCE/M-RCE/M-CRU.
         1. Primer Coat: Eco-RCE/M, 3-5 mils.
         2. Build Coat: Eco-RCE/M, 7-13 mils.
         3. Topcoat: Eco-CRU, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      4. Tennant Performance CRU, GPE-GPE-CRU.
         1. Primer Coat: Eco-GPE, 3-5 mils.
         2. Build Coat: Eco-GPE, 7-13 mils.
         3. Topcoat: Eco-CRU, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      5. Tennant Performance CRU, CEP-CEP-CRU.
         1. Primer Coat: Eco-CEP, 3-5 mils.
         2. Build Coat: Eco-CEP, 7-13 mils.
         3. Topcoat: Eco-CRU, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      6. Tennant Performance HPS, MPE-MPE-HPS 100.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Build Coat: Eco-MPE, 7-13 mils.
         3. Topcoat: Eco-HPS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      7. Tennant Performance HPS, RCE-RCE-HPS 100.
         1. Primer Coat: Eco-RCE, 3-5 mils.
         2. Build Coat: Eco-RCE, 7-13 mils.
         3. Topcoat: Eco-HPS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      8. Tennant Performance HPS, RCE/M-RCE/M-HPS 100.
         1. Primer Coat: Eco-RCE/M, 3-5 mils.
         2. Build Coat: Eco-RCE/M, 7-13 mils.
         3. Topcoat: Eco-HPS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      9. Tennant Performance HPS, GPE-GPE-HPS 100.
         1. Primer Coat: Eco-GPE, 3-5 mils.
         2. Build Coat: Eco-GPE, 7-13 mils.
         3. Topcoat: Eco-HPS 100, 3 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      10. Tennant Performance HPS, CEP-CEP-HPS 100.
          1. Primer Coat: Eco-CEP, 3-5 mils.
          2. Build Coat: Eco-CEP, 7-13 mils.
          3. Topcoat: Eco-HPS 100, 3 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      11. Tennant Performance HTS, MPE-MPE-HTS 100.
          1. Primer Coat: Eco-MPE, 3-5 mils.
          2. Build Coat: Eco-MPE, 7-13 mils.
          3. Topcoat: Eco-HTS 100, 3 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      12. Tennant Performance HTS, RCE-RCE-HTS 100.
          1. Primer Coat: Eco-RCE, 3-5 mils.
          2. Build Coat: Eco-RCE, 7-13 mils.
          3. Topcoat: Eco-HTS 100, 3 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      13. Tennant Performance HTS, RCE/M-RCE/M-HTS 100.
          1. Primer Coat: Eco-RCE/M, 3-5 mils.
          2. Build Coat: Eco-RCE/M, 7-13 mils.
          3. Topcoat: Eco-HTS 100, 3 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      14. Tennant Performance HTS, GPE-GPE-HTS 100.
          1. Primer Coat: Eco-GPE, 3-5 mils.
          2. Build Coat: Eco-GPE, 7-13 mils.
          3. Topcoat: Eco-HTS 100, 3 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      15. Tennant Performance HTS, CEP-CEP-HTS 100.
          1. Primer Coat: Eco-CEP, 3-5 mils.
          2. Build Coat: Eco-CEP, 7-13 mils.
          3. Topcoat: Eco-HTS 100, 3 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      16. Tennant Performance WG-240, MPE-MPE-WearGuard-240.
          1. Primer Coat: Eco-MPE, 3-5 mils.
          2. Build Coat: Eco-MPE, 7-13 mils.
          3. Topcoat: WearGuard-240, 4 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      17. Tennant Performance WG-240, MPE-MPE-Wear Guard 240-Wear Guard 240.
          1. Primer Coat: Eco-MPE, 3-5 mils.
          2. Build Coat: Eco-MPE, 7-13 mils.
          3. Topcoat: WearGuard-240, 4 mils.
          4. 2nd Topcoat: WearGuard 240, 4 mils.
          5. Color: As selected by Architect from manufacturer's full range.
      18. Tennant Performance WG-240, RCE-RCE-Wear Guard 240.
          1. Primer Coat: Eco-RCE, 3-5 mils.
          2. Build Coat: Eco-RCE, 7-13 mils.
          3. Topcoat: WearGuard-240, 4 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      19. Tennant Performance WG-240, RCE/M-RCE/M-Wear Guard 240.
          1. Primer Coat: Eco-RCE/M, 3-5 mils.
          2. Build Coat: Eco-RCE/M, 7-13 mils.
          3. Topcoat: WearGuard-240, 4 mils.
          4. Color: As selected by Architect from manufacturer's full range.
      20. Tennant Performance WG-240, GPE-GPE-Wear Guard 240.
          1. Primer Coat: Eco-GPE, 3-5 mils.
          2. Build Coat: Eco-GPE, 7-13 mils.
          3. Topcoat: WearGuard-240, 4 mils.
          4. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Performance CRU:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CEP.
        2. Eco-GPE.
        3. Eco- MPE.
      1. Build Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CEP.
        2. Eco- MPE.
      1. Top Coat: Eco-CRU.
    1. Customized Systems, Tennant Performance HPS:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco- MPE.
      1. Build Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CEP.
        2. Eco-GPE.
        3. Eco- MPE.
      1. Top Coat: Eco-HPS-100.
    1. Customized Systems, Tennant Performance HTS:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco- MPE.
      1. Build Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CEP.
        2. Eco-GPE.
        3. Eco- MPE.
      1. Top Coat: Eco-HTS-100.
    1. Customized Systems, Tennant Performance WG-240 Gloss:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco- MPE.
      1. Build Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-CEP.
        2. Eco-GPE.
        3. Eco- MPE.
      1. Top Coat: WearGuard-240 Gloss.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT METALLIC

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant Metallic Gloss, MPE-MPE-UVE-HPS 100.
         1. Primer: Eco-MPE, 3-5 mils.
         2. Base Coat with Pigment: Eco-MPE, 15 mils.
         3. Metallic Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-HPS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      2. Tennant Metallic Gloss, MPE-MPE-UVE.
         1. Primer: Eco-MPE, 3-5 mils.
         2. Base Coat with Pigment: Eco-MPE, 15 mils.
         3. Metallic Coat/Topcoat: Eco-UVE, 15 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Tennant Metallic Satin, MPE-MPE-UVE-HTS 100.
         1. Primer: Eco-MPE, 3-5 mils.
         2. Base Coat with Pigment:Eco-MPE, 15 mils.
         3. Metallic Coat: Eco-UVE, 15 mils.
         4. Topcoat: Eco-HTS 100, 3 mils.
         5. Color: As selected by Architect from manufacturer's full range.
         6. System Properties:

Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.94.

Compressive Strength, ASTM D605: 13,500 psi (93.079 MPa).

Flammability, ASTM D635: 182 mm/min.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Only, ASTM D2240: 171.3.

Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

Sward Hardness, 1 mil Film, ASTM D2240: 35-40.

Tensile Strength, Epoxy Resin, ASTM 2370: 8,000 psi (55.158 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compound, VOC, ASTM D3960L: Eco-MPE A+B=0.41 lb/gal (49 g/L) Eco-UVE A+B=0.67 lb/gal (81 g/L) Eco-HTS 100 A+B=0.05 lb/gal (6 g/L).

Water Absorption, 24 hrs, ASTM D570: 0.2 percent weight increase.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant Metallic Gloss:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco- MPE.
      1. Base Coat with Pigment: Eco-MPE.
      2. Metallic Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-TCP.
        2. Eco-UVE.
      1. Top Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-HPS 100.
        2. Eco- TCP.
    1. Customized Systems, Tennant Metallic Satin:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco- MPE.
      1. Base Coat with Pigment: Eco-MPE.
      2. Metallic Coat:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-TCP.
        2. Eco-UVE.
      1. Top Coat: Eco-HTS 100.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT MMA

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant MMA DQ DB, P-BC\*-BC\*-TC-TC.
         1. Primer Coat: Tennant MMA Primer, 16 mils.
         2. First Broadcast Coat with decorative quartz broadcast: Tennant MMA Body, 16 mils.
         3. Second Broadcast Coat with decorative quartz broadcast: Tennant MMA Body, 16 mils.
         4. Grout Coat: Tennant MMA Topcoat, 16 mils.
         5. Topcoat: Tennant MMA Topcoat, 16 mils.
         6. Color: As selected by Architect from manufacturer's full range.
      2. Tennant MMA DF DB, P-BC\*-BC\*-TC-TC.
         1. Primer Coat: Tennant MMA Primer, 16 mils.
         2. First Broadcast Coat pigmented with Decorative Vinyl Flake (1/4, 1/8, or micro): Tennant MMA Body, 16 mils.
         3. Second Broadcast Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Tennant MMA Body, 16 mils.
         4. Grout Coat: Tennant MMA Topcoat, 16 mils.
         5. Topcoat: Tennant MMA Topcoat, 16 mils.
         6. Color: As selected by Architect from manufacturer's full range.
      3. Tennant MMA Slurry, P-BC (FILLER & SILICA SAND)-TC-TC.
         1. Primer Coat: Tennant MMA Primer, 16 mils.
         2. Slurry Coat with Silica Broadcast: Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 16 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      4. Tennant MMA Slurry, P-BC(FILLER & DF)-TC-TC.
         1. Primer Coat: Tennant MMA Primer, 16 mils.
         2. Slurry Coat with Decorative Vinyl Flake (1/4, 1/8, or micro): Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 16 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      5. Tennant MMA Slurry, P-BC(FILLER & DQ)-TC-TC.
         1. Primer Coat: Tennant MMA Primer, 16 mils.
         2. Slurry Coat with decorative quartz broadcast: Tennant MMA Body, 1/8 to 3/16 inches.
         3. Grout Coat: Tennant MMA Topcoat, 16 mils.
         4. Topcoat: Tennant MMA Topcoat, 16 mils.
         5. Color: As selected by Architect from manufacturer's full range.
      6. Tennant MMA Shop Floor, P-BC\*-BC\*-TC-TC.
         1. Primer Coat: Tennant MMA Primer, 16 mils.
         2. First Broadcast Coat: Tennant MMA Body, 16 mils.
         3. Second Broadcast Coat: Tennant MMA Body, 16 mils.
         4. Grout Coat: Tennant MMA Topcoat, 16 mils.
         5. Topcoat: Tennant MMA Topcoat, 16 mils.
         6. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant MMA DF DB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Tennant MMA Primer.
      3. First Broadcast Coat (flake): Tennant MMA Body Coat.
      4. Second Broadcast Coat (flake): Tennant MMA Body Coat.
      5. Flake:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Micro Flake.
        2. 1/8 inch (3.2 mm) Flake.
        3. 1/4 inch (6.4 mm) Flake.
      1. Grout Coat: Tennant MMA Topcoat.
      2. Top Coat: Tennant MMA Topcoat.
    1. Customized Systems, Tennant MMA DQ DB:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Tennant MMA Primer.
      3. First Broadcast Coat (colored quartz): Tennant MMA Body Coat.
      4. Second Broadcast Coat (colored quartz): Tennant MMA Body Coat.
      5. Grout Coat: Tennant MMA Topcoat.
      6. Top Coat: Tennant MMA Topcoat.
    1. Customized Systems, Tennant MMA Shop Floor:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Tennant MMA Primer.
      3. First Broadcast Coat (silica): Tennant MMA Body Coat.
      4. Second Broadcast Coat (silica): Tennant MMA Body Coat.
      5. Grout Coat: Tennant MMA Topcoat.
      6. Top Coat: Tennant MMA Topcoat.
    1. Customized Systems, Tennant MMA Slurry DF:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Tennant MMA Primer.
      3. Slurry Coat (flake broadcast): Tennant MMA Body Coat 1/8 to 3/16.
      4. Grout Coat: Tennant MMA Topcoat.
      5. Top Coat: Tennant MMA Topcoat.
    1. Customized Systems, Tennant MMA Slurry DQ:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Tennant MMA Primer.
      3. Slurry Coat (colored quartz broadcast): Tennant MMA Body Coat 1/8 to 3/16.
      4. Grout Coat: Tennant MMA Topcoat.
      5. Top Coat: Tennant MMA Topcoat.
    1. Customized Systems, Tennant MMA Slurry:
       1. Moisture Mitigation:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-MVB.
        2. Eco-Crete SF.
        3. Eco-Crete SL.
      1. Waterproofing: Eco-Flex.
      2. Primer: Tennant MMA Primer.
      3. Slurry Coat (silica broadcast): Tennant MMA Body Coat 1/8 to 3/16.
      4. Grout Coat: Tennant MMA Topcoat.
      5. Top Coat: Tennant MMA Topcoat.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TENNANT ESD

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Recommended Pre-Built Systems:

\*\* NOTE TO SPECIFIER \*\* Delete systems not required.

* + - 1. Tennant ESD Conductive ECE, MPE-MPE-ECE.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Build Coat: Eco-MPE, 8-15 mils.
         3. Topcoat: Eco-ECE, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Body Voltage Generation, ESD STM 97.2: Less than 15 volts.

Static Decay, MIL-STD-3010 4046: 0.01 seconds.

Surface Resistance Point to Point/ Point to Ground, EOS/ESD Assoc. ANSI/ESD 7.1: 25,000 - 1,000,000 Ohms.

Abrasion Resistance Taber Abraser CS-17 Taber Wheel, 1.00 g Load, 1,000 revs, ASTM D4060: 75 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.85, high traction.

Compressive Strength, ASTM D695: 11,200 psi (77.22 MPa).

Flexibility, ASTM D522: 1/4 inch, Passes test.

Gloss 60 degrees, ASTM D523: 80 degrees.

Impact Resistance, ASTM D2794: 80 in.-lbs. direct and reverse.

Indentation, MIL-D-3134: Passes.

Shore D Hardness, ASTM 2240: 80.

Tensile Strength, ASTM 2370: 6,000 psi (41.37 MPa).

Percent Elongation, ASTM D2370: 5 percent.

Volatile Organic Compounds, VOC, ASTM D3960L: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-ECE A+B=1.55 lb/gal (186 g/L).

Water Absorption, 24 hr immersion, ASTM C413: 0.2 percent weight increase.

* + - 1. Tennant ESD Conductive ECE, RCE-RCE-ECE.
         1. Primer Coat: Eco-RCE, 3-5 mils.
         2. Build Coat: Eco-RCE, 8-15 mils.
         3. Topcoat: Eco-ECE, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Tennant ESD Conductive ECE, RCE/M-RCE/M-ECE.
         1. Primer Coat: Eco-RCE/M, 3-5 mils.
         2. Build Coat: Eco-RCE/M, 8-15 mils.
         3. Topcoat: Eco-ECE, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Tennant ESD Conductive ECE, GPE-GPE-ECE.
         1. Primer Coat: Eco-GPE, 3-5 mils.
         2. Build Coat: Eco-GPE, 8-15 mils.
         3. Topcoat: Eco-ECE, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      4. Tennant ESD Dissipative SCT, MPE-MPE-SCT.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Build Coat: Eco-MPE, 8-15 mils.
         3. Topcoat: Eco-SCT, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Surface Resistance Point to Point/ Point to Ground, EOS/ESD Assoc. ANSI/ESD 7.1: 1 x 105 ohms to 1 x 109 ohms.

Abrasion Resistance Taber Abraser CS-17 Taber Wheel, 1,00 g Load, 1,000 revs, ASTM D4060: 90-100 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-James Friction Tester, ASTM D2047: 0.50-0.055.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.97.

Compressive Strength, ASTM D695: 13,500 psi (93.08 MPa).

Shore D Hardness, ASTM 2240: 80-85 at 0 sec 75-80 at 15 sec.

Tensile Strength, ASTM 2370: 8,000 psi (55.16 MPa).

Percent Elongation, ASTM D2370: 5 percent.

Volatile Organic Compounds, VOC, ASTM D3960L: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-SCT A+B=0.79 lb/gal (94 g/L).

Water Absorption 24 hr immersion, ASTM C413: 0.2 percent weight increase.

* + - 1. Tennant ESD Dissipative SCT, RCE-RCE-SCT.
         1. Primer Coat: Eco-RCE, 3-5 mils.
         2. Build Coat: Eco-RCE, 8-15 mils.
         3. Topcoat: Eco-SCT, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Tennant ESD Dissipative SCT, RCE/M-RCE/M-SCT.
         1. Primer Coat: Eco-RC/ME, 3-5 mils.
         2. Build Coat: Eco-RCE/M, 8-15 mils.
         3. Topcoat: Eco-SCT, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Tennant ESD Dissipative SCT, GPE-GPE-SCT.
         1. Primer Coat: Eco-GPE, 3-5 mils.
         2. Build Coat: Eco-GPE, 8-15 mils.
         3. Topcoat: Eco-SCT, 12 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      4. Tennant ESD Dissipative SDS, MPE-MPE-SDS.
         1. Primer Coat: Eco-MPE, 3-5 mils.
         2. Build Coat: Eco-MPE, 12-14 mils.
         3. Topcoat: Eco-SDS, 2.7 mils.
         4. Color: As selected by Architect from manufacturer's full range.
         5. System Properties:

Body Voltage Generation, ANSI/ESD STM 97.2: 12 volts with ESD shoes, Method 2 ANSI/ESD S20.20, 32 volts with heel straps.

Body Voltage Decay (with ESD shoes or heel straps AATCC 134-1979 (modified), 1,000 volts to less than 10 volts in less than 1.0 seconds.

Resistance to Ground in Combination with Person, ANSI/ESD STM 97.1(ANSI/ESD S20.20-Methood 1): Less than 3.5 x 107ohms, ESD shoes or heel straps.

Surface Resistance Point to Point/ Point to Ground ESD Assoc. ANSI/ESD 7.1: 1 x 105 ohms to Less than 1 x 109 ohms.

Abrasion Resistance Taber Abraser CS-17 Taber Wheel, 1,00 g Load, 1,000 revs, ASTM D4060L: 38 mg loss.

Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.

Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.

Coefficient of Friction-James Friction Tester, ASTM D2047: 0.50.

Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1: 0.95.

Compressive Strength, Epoxy, ASTM D695, 13,500 psi (93.1 MPa).

Flammability/Rate of Burn, Topcoat Resin, ASTM D635: 182 mm/min.

Konig Hardness, 3 mil/0.08 mm Film, Topcoat Resin Only, ASTM D4366: 171.3.

Resistance to Yellowing AS measured using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154: Less than 10 increase to yellow units (CIE delta b).

Shore D Hardness, ASTM 2240: 80-85 at 0 sec, 75-80 at 15 sec.

Tensile Strength, ASTM 2370: 6,250 psi (43.1 MPa).

Percent Elongation, ASTM D2370: 6 percent.

Volatile Organic Compounds, VOC, ASTM D3960L: Eco-MPE A+B= 0.14 lb/gal (49 g/L) Eco-SDS A+B=0.11 lb/gal (13 g/L).

Water Absorption, 24 hr immersion, ASTM C413: 0.2 percent weight increase.

* + - 1. Tennant ESD Dissipative SDS, RCE-RCE-SDS.
         1. Primer Coat: Eco-RCE, 3-5 mils.
         2. Build Coat: Eco-RCE, 12-14 mils.
         3. Topcoat: Eco-SDS, 2.7 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      2. Tennant ESD Dissipative SDS, RCE/M-RCE/M-SDS.
         1. Primer Coat: Eco-RCE/M, 3-5 mils.
         2. Build Coat: Eco-RCE/M, 12-14 mils.
         3. Topcoat: Eco-SDS, 2.7 mils.
         4. Color: As selected by Architect from manufacturer's full range.
      3. Tennant ESD Dissipative SDS, GPE-GPE-SDS.
         1. Primer Coat: Eco-GPE, 3-5 mils.
         2. Build Coat: Eco-GPE, 12-14 mils.
         3. Topcoat: Eco-SDS, 2.7 mils.
         4. Color: As selected by Architect from manufacturer's full range.

\*\* NOTE TO SPECIFIER \*\* Contact Tennant for more information and guidance creating customized systems. Delete customized systems and options not required.

* + 1. Customized Systems, Tennant ESD Conductive ECE:
       1. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco-MPE.
      1. Build Coat: Eco-MPE.
      2. Top Coat: Eco-ECE.
    1. Customized Systems, Tennant ESD Dissipative SDS:
       1. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco-MPE.
      1. Build Coat: Eco-MPE.
      2. Top Coat: Eco-SDS.
    1. Customized Systems, Tennant ESD Dissipative SCT:
       1. Primer:

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + - * 1. Eco-GPE.
        2. Eco-MPE.
      1. Build Coat: Eco-MPE.
      2. Top Coat: Eco-SCT.

\*\* NOTE TO SPECIFIER \*\* Always retain product properties. Delete types not required.

* 1. PRODUCT PROPERTIES
     1. Eco-ECE: A three-component 100 percent high solids, solvent-free system. It is designed to be conductive and dissipate a 5000 volt charge to zero in less than 0.1 seconds. This product maintains conductive performance over wear life of the coating. It provides a conductive surface over a thin-mil or a heavy-build system.
        1. Surface Resistance, Point to Point / Point to Ground. EOS/ESD Assoc. ANSI/ESD 7.1-2013, 25,000-1,000,000 ohms.
        2. Body Voltage Generation, ESD STM 97.2, less than 15 volts.
        3. Static Decay, MIL-STD-3010 4046, 0.01 seconds.
        4. Gloss 60 Degree, ASTM D523, 80 degrees.
        5. Wet Static Coefficient of Friction-BOT 3000, ANSI/NFSI B101.1: 0.85 (High Traction).
        6. Adhesion to Concrete, ASTM D4541, greater than 400 psi, concrete failed.
        7. Flexibility, ASTM D522, 1/4 inch, passes test.
        8. Compressive Strength, ASTM C579, 11,200 psi.
        9. Tensile Strength, ASTM D2370, 6,000 psi.
        10. Impact Resistance, ASTM 2794, 80 in.-lbs. direct and reverse.
        11. Shore D Hardness ASTM D2240: 80.
        12. Tensile Elongation, ASTM D2370, 5 percent.
        13. Abrasion Resistance, Taber Abraser CS-17 Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060, 75 mg.
        14. Water Absorption (24-hour immersion), ASTM C413, 0.2 percent weight increase.
        15. Indention, MIL-D3134, passes.
        16. Volatile Organic Compound-VOC, ASTM C3960, 1.55 lb/gal (186 g/L).
     2. Eco-CRN: A two component, high-solids novolac-based secondary containment topping/lining that provides superior protection to concrete surfaces subjected to many acid and caustic solutions. May also be used alone, with the addition of silica sand or decorative colored quartz aggregate. For a colored resin system, add the Tennant Standard Colorant of choice to clear Eco-CRN resin.
        1. Provides a highly acid and alkali resistant layer to existing coatings.
        2. Solvent-free.
        3. Cleans easily, saving detergent, labor and water.
        4. Material Liquid Properties:
           1. Percent Solids (Nonvolatiles) per ASTM D2369, Method E: 94.74 at 10 mils (0.25 mm) or greater.
           2. Density per ASTM D1475: A+B: 9.23 lbs per gal (1.1 kg per Liter).
           3. Volatile Organic Compounds (VOC) per EPA - Method 24: Less than 100 grams per liter at 10 mils (0.25 mm) or greater.
        5. Cure Coating Properties; Dry Film:
           1. Filled Compressive Strength per ASTM D695: 9,750 psi (67.22 MPa).
           2. Filled Flexural Strength per ASTM D790: 1,900 psi (13.10 MPa).
           3. Flexural Strength per ASTM D790: 6,200 psi (42.75 MPa).
           4. Gloss per ASTM E97: 95+.
           5. Sward Hardness, A/D per ASTM D2240: 90 / 70.
           6. Tensile Strength per ASTM D2370: 4,100 psi (28.27 MPa).
     3. Eco-Crete HF: A three-part, cementitious-polyurethane troweled system for resurfacing interior concrete floors in areas that require thermal shock resistance. Typically installed at 1/4 inch (6.4 mm).
        1. Compressive Strength, ASTM C579: 7,700 psi (53.78 MPa).
        2. Tensile Strength, ASTM C307: 975 psi (6.72 MPa).
        3. Flexural Strength, ASTM C580: 1,900 psi (10.34 MPa).
        4. Bond Strength, ASTM, D4541: 100 percent concrete failure.
        5. Impact Strength, ASTM D4226: Greater than 160 in-lb.
        6. Volatile Organic Compound, VOC, ASTM D3960L: Mixed A+B+C: 1.04 lb/gal (5g/l).
        7. Resistance to Fungi Growth, ASTM G21: Passes, Rating of 1.
        8. Flammability, ASTM D635: Self-extinguishing.
     4. Eco-Crete IF: A three-part, heavy duty aggregate flooring system typically installed at 3/8 to 1/2 inch (9.5 to 13 mm) thickness in areas that require resistance to thermal shock, impact, abrasion and chemical exposure.
        1. Compressive Strength, ASTM C579: 6,800 psi (46.88 MPa).
        2. Tensile Strength. ASTM C307: 975 psi (6.72 MPa).
        3. Flexural Strength, ASTM C580: 2.900 psi (19.99 MPa).
        4. Bond Strength, ASTM D4541: 100 percent concrete failure.
        5. Impact Strength, ASTM D4226: Greater than 160 in-lb.
        6. Volatile Organic Compound, VOC, ASTM D3960L: Mixed A+B+C: 0.04 lb/gal (5 g/L).
        7. Resistance to Fungi Growth, ASTM G21: Passes, Rating 1.
        8. Flammability, ASTM D635: Self-extinguishing.
     5. Eco-Crete MF: A three-part, cementitious-polyurethane slurry system, for resurfacing lightly eroded interior concrete floors in areas that require thermal shock resistance, this system provides a smooth finish. Typically installed at 1/8 inch (3.2 mm).
        1. Compressive Strength, ASTM C579: 7,200 psi (49.6 MPa).
        2. Tensile Strength. ASTM C307: 1,050 psi (7.2 MPa).
        3. Flexural Strength, ASTM C580: 2.700 psi (18.6 MPa).
        4. Bond Strength, ASTM D4541: 100 percent concrete failure.
        5. Impact Strength, ASTM D4226: Greater than 160 in-lb.
        6. Volatile Organic Compound, VOC, ASTM D3960L: Mixed A+B+C: 0.04 lb/gal (5 g/L).
        7. Resistance to Fungi Growth, ASTM G21: Passes, Rating 1.
        8. Flammability, ASTM D635: Self-extinguishing.
     6. Eco-Crete SF: A three-part, cementitious-polyurethane slurry system with aggregate broadcast, for resurfacing interior concrete floors in areas that require thermal shock resistance and slip resistance. Typically installed at 1/4 inch (6.4 mm).
        1. Compressive Strength, ASTM C579: 8,200 psi (56.5 MPa).
        2. Tensile Strength. ASTM C307: 975 psi (6.72 MPa).
        3. Flexural Strength, ASTM C580: 2.500 psi (19.99 MPa).
        4. Bond Strength, ASTM D4541: 100 percent concrete failure.
        5. Impact Strength, ASTM D4226: Greater than 160 in-lb.
        6. Volatile Organic Compound, VOC, ASTM D3960L: Mixed A+B+C: 0.04 lb/gal (5 g/L).
        7. Resistance to Fungi Growth, ASTM G21: Passes, Rating 1.
        8. Flammability, ASTM D635: Self-extinguishing.
     7. Eco-Crete SL: A three-part, cementitious-polyurethane slurry system with aggregate broadcast, for resurfacing lightly eroded interior concrete floors in areas that require thermal shock resistance and slip resistance. Typically installed at 1/8 inch (3.2 mm).
        1. Compressive Strength, ASTM C579: 8,400 psi (57.9 MPa).
        2. Tensile Strength. ASTM C307: 1,050 psi (7.2 MPa).
        3. Flexural Strength, ASTM C580: 2.700 psi (19.99 MPa).
        4. Bond Strength, ASTM D4541: 100 percent concrete failure.
        5. Impact Strength, ASTM D4226: Greater than 160 in-lb.
        6. Volatile Organic Compound, VOC, ASTM D3960L: Mixed A+B+C: 0.04 lb/gal (5 g/L).
        7. Resistance to Fungi Growth, ASTM G21: Passes, Rating 1.
        8. Flammability, ASTM D635: Self-extinguishing.
     8. Eco-Crete TC: A cementitious grout coat, which may be used for a primer coat or seal coat.
        1. Volatile Organic Compound-VOC, lb/gal (g/L) ASTM D3960L: A+B+C+=0.04 (5)
        2. Compressive Strength, ASTM C579, 5900 (40.67).
        3. Tensile Strength, ASTM C307, 1250 psi (8.61).
        4. Flexural Strength, ASTM C580, 2900 (19.99).
        5. Bond Strength, ASTM D4541, 1005 concrete failure.
        6. Impact Strength, ASTM D4226, greater than 160 in-lb.
        7. Resistance to Fungi Growth, ASTM G21, Passes Rating 1.
        8. Flammability, ASTM D6335, Self-extinguishing.
     9. Eco-CEP: A neutral, two-component, high-solids epoxy. Applied at 3 mils (0.08 mm) for priming or up to 30 mils (0.76 mm) as a build coat .Colors are optional.
        1. Percent Solids, ASTM D1475: A + Eco-MPE B=88.07 lb/gal (82.47 g/L).
        2. Volatile Organic Compound-VOC, ASTM D3960L: A+B=1.38 lb/gal (165 g/L).
        3. Abrasion Resistance, Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 120-135 mg loss.
        4. Adhesion to Concrete, ASTM D4541: 450 psi (3.10 MPa), concrete failed.
        5. Adhesion to Concrete, ASTM D7234: 732 psi (4.48 MPa), concrete failed.
        6. Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).
        7. Percent Elongation, ASTM D2370: Greater than 5.
        8. Shore D Hardness, ASTM D2240: 70-75 at 0 sec, 65-70 at 15 sec (with Eco-MPE B).
     10. Eco-CRU: A light-stable and chemical resistant urethane.
         1. Volatile Organic Compound-VOC, ASTM D3960L: A+B 2.04 lb/gal (245 g/L).
         2. Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel, 1,00 g Load, 1,000 revs, ASTM D4060, 37-39 mg loss.
         3. Adhesion to Concrete, ASTM D43541, 450 psi (3.10MPa), concrete failed.
         4. Adhesion to Concrete, ASTM D7234, 732 psi (4.48 MPa), concrete failed.
         5. Coefficient of Friction-James Friction Tester, ASTM D2047: 0.50.
         6. Wet Static Coefficient of Friction-BOT 3000, ASNI/NFSI B1.01.1, 0.99.
         7. Compressive Strength (epoxy), ASTM D695, 13,500 psi (93.079 MPa).
         8. Flammability, ASTM D635: 50 mm/min.
         9. 60 degrees Gloss, ASTM D523, greater than 95.
         10. Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154, less than 10 increase of yellow units (CIE delta b).
         11. Tensile Strength, ASTM D2370, 7,000-9,000 psi (48.26-62.05 MPa).
         12. Percent Elongation, ASTM D2370, 9-10.
         13. Kong Hardness (3 mil/0.08 mm film) (topcoat resin only), ASTM D4366. 140-150.
         14. Shore D Hardness (epoxy), ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.
         15. Thermal Stability/Heat Resistance, MIL-D-3134J Section 4.6.3, No slip, softening or change in appearance.
     11. Eco-Flex: A neutral, two-component high solids epoxy, Applied at 3-5 mils for priming or up to 2-coats of 20 mil as a flexible waterproofing membrane.
         1. Percent Solids, by weight (by volume), ASTM D2369, A + B: 85.76 (85.09).
         2. Volatile Organic Compound-VOC, ASTM D3960L: Mixed A + B: 0.04 lb/gal (4 g/L).
         3. Abrasion Resistance, mg loss, Taber Abraser, C-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 43.1.
         4. Adhesion, ASTM D4541: Greater than 400 psi Concrete Failure.
         5. Tensile Strength, ASTM D2370: 18,530 psi (127,857 kPa) 7 mils, 3-day cure.
         6. Percent Elongation, ASTM D2370: 125 7 mils, 3-day cure.
         7. Shore A Hardness, ASTM D2240: 85 at 0 sec, 80 at a5 sec.
         8. Shore D Hardness, ASTM D2240: 40 at 0 sec, 35 at 15 sec.
     12. Eco-GPE: A neutral, two-component, high-solids epoxy. Applied at 3 mils (0.08 mm) for priming or up to 30 mils (0.76 mm) as a build coat. Colors are optional.
         1. Density-lb/gal (kg/L), ASTM D1475: A= 11.35 (1.36), B=8.52 (1.02), A/B=10.41 (1.25).
         2. Percent Solids (nonvolatiles), ASTM D2369, Method E: A+B=less than or equal to 91.00 at 10 mils or greater.
         3. Volatile Organic Compound-VOC, ASTM D3960: A+B=less than or equal to 100 g/L (0.83 lb/gal) at 10 mils (0.25 mm) or greater.
         4. Abrasion Resistance, Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 81 mg loss.
         5. Adhesion to Concrete, ASTM D4541: 1232 psi (8.49 MPa), concrete failed.
         6. Adhesion to Concrete, ASTM D7234: Greater than 480 psi (3.31 MPa) (max psi machine can register).
         7. Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.50.
         8. Coefficient of Friction-COF, Wet Static BOT 3000, ANSI/NSFI B101.1: 1.0.
         9. Compressive Strength, ASTM D695: 9,000 psi (62.05 MPa).
         10. Tensile Strength, ASTM D2370: 5,000 psi (34.47 MPa).
         11. Percent Elongation, ASTM D2370: 4.
         12. Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.
         13. Thermal Stability/Heat Resistance Tested on Steel Panel (5 hours at 158 degrees F), ML-D-3134J, Section 4.6.3: No slip/flow, no softening or change in appearance.
         14. Water Absorption (24-hour immersion, resin only), ASTM D570: 0.4 percent increase in weight.
     13. Eco-HPS 100: A clear, high solids, two-component, gloss finish, aliphatic, moisture-cure urethane.
         1. Percent Solids, by weight( by volume), ASTM D2369, A+B: 91.34 (91.60).
         2. Volatile Organic Compound-VOC, ASTM D3960L: Mixed A + B: 0.06 lb/gal (7 g/l).
         3. Abrasion Resistance, mg loss, Taber Abraser, C-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18.8.
         4. Coefficient of Friction-COF, James Friction Tester: 0.61.
         5. Wet Static Coefficient of Friction, BOT 3000, ANS/NFSI B101.1: 0.99.
         6. Flammability, ASTM D635: 182 mm/min.
         7. Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154, Less than 10 increase of yellow units (CIE Lab Delta (b))
         8. Tensile Strength, ASTM D2370: 6,250 psi (43.09 MPa).
         9. Percent Elongation, ASTM D2370: 6.
         10. Konig Hardness, (3 mil/76.2 micron film), ASTM D4366: 171.3.
         11. Water Absorption, 24-hour immersion, ASTM C413: 0.2 percent weight increase.
     14. Eco-HTS 100: A clear high solids, three-component, satin finish, aliphatic, moisture-cure urethane.
         1. Percent Solids, by weight (by volume), ASTM D2369, A + B + C: 94.02 (92.57).
         2. Volatile Organic Compound-VOC, ASTM D3960L: Mixed A + B + C: 0.05 lb/gal (6 g/L).
         3. Abrasion Resistance, mg loss, Taber Abraser, C-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 18.
         4. Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.
         5. Wet Static Coefficient of Friction, BOT 3000, ANSI/NFSI B101.1: 0.94.
         6. Flammability, ASTM G154: 182 mm/min.
         7. Resistance to Yellowing as Measured Using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154, Less than 10 increase of yellow units (CIE Lab Delta (b))
         8. Tensile Strength, 24 hours, Resin Only, ASTM D2370: 6,250 psi (43,092 MPa).
         9. Percent Elongation, 24 hours, Resin Only, ASTM D2370: 6.
         10. Konig Hardness, (3 mil/76.2 micron film), ASTM D4366: 171.3.
         11. Water Absorption, 24-hour immersion, ASTM C413: 0.2 percent weight increase.
     15. Eco-MPE: A neutral, two-component, high solids epoxy.
         1. Percent Solids, by weight (by volume), ASTM D1475, A + B: 95.45 (94.56).
         2. Volatile Organic Compound-VOC, ASTM D3960L: Mixed A + B: 0.41 lb/gal (49 g/L).
         3. Abrasion Resistance, mg loss, Taber Abraser, C-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 83.1.
         4. Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.59-0.62.
         5. Adhesion to Concrete, ASTM D5441: 732 psi (4.48 MPa) concrete failed.
         6. Adhesion to Concrete, ASTM D7234: 450 psi (3.10 MPa) concrete failed.
         7. Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).
         8. Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).
         9. Percent Elongation, ASTM D2370: 5.
         10. Shor D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.
     16. Eco-MVB: A two-part, 1 to 1 mix ratio, 100 percent solid epoxy moisture mitigation barrier. A moisture tolerant, VOC-compliant product that limits alkalinity and transmission of moisture through concrete slabs. A rapid curing time for faster job completion. Allows the direct bond of most industrial coatings, floor leveling products and most adhesive systems.
         1. Thickness of 12 mil (0.30 mm) System: On 28 day old concrete or older: Withstands concrete moisture up to 85 percent in-situ relative humidity per ASTM F2170.
         2. Thickness of 17 mil (0.43 mm) System: On 28 days old concrete or older: Withstands concrete moisture up to 100 percent in-situ relative humidity per ASTM F2170.
         3. Thickness of 22 mil (0.56 mm) System: On concrete between 7 and 28 days old and cured enough to be properly prepped: Withstands concrete moisture up to 100 percent in-situ relative humidity per ASTM F2170.
         4. VOCs per EPOA - Method 24: 0.016 lbs per gal (1.96 grams per liter).

\*\* NOTE TO SPECIFIER \*\* The following values were determined at 77 degrees F (25 degrees C).

* + - 1. Adhesion to Concrete per ASTM D7234: 350 psi (2.41 MPa.)
      2. Compressive Strength per ASTM D695L 11,880 psi (81.93 MPa).
      3. Percent Elongation per ASTM D2370: 8 percent.
      4. Tensile Strength per ASTM D2370: 9,100 psi (62.76 MPa).
      5. Shore D Hardness per ASTM D2240: 90 at 0 sec, and 73 at 15 sec.
      6. Thermal Stability / Heat Resistance Tested on Steel Panel, 5 hrs at 158 degrees F (70 degrees C) per MIL-D-3134J, Section 4.6.3: No slip/flow, no softening or change in appearance.
      7. Water Absorption; 24-hour immersion, resin only per ASTM D570: 1.17 percent.
      8. Water Vapor Transmission; net perms, per ASTM E96: 0.05 (17 mils)
    1. Eco-PT 250: A three-component filled, 100 percent solids epoxy system for resurfacing eroded interior concrete floors.
       1. Percent Solids, by weight (by volume), ASTM D2369 A + B + C: 99.52 (98.8).
       2. Volatile Organic Compounds-VOC, ASTM D3960L: A + B + C: 0.09 lb/gal (11 g/L).
       3. Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.60-0.63 (with seal coat and topcoat of PT Topcoat).
       4. Coefficient of Thermal Liner Expansion, ASTM D696: 0.0000197 mm/mm/degrees C.
       5. Adhesion to Concrete, ASTM D4541: 732 psi (4.48 MPa), concrete failed.
       6. Adhesion to Concrete, ASTM D7234: 450 psi (3.10 MPa), concrete failed.
       7. Compressive Strength, ASTM C570: 10,000 psi (68.95 MPa).
       8. Flexural Strength, ASTM D790: 3,700 psi (25.51 MPa).
       9. Flexural Modulus of Elasticity, ASTM D790: 180,000,000 psi (100,000 MPa).
       10. Heat Deflection Temperature, ASTM D648: 140 degrees F (60 degrees C) at 264 psi (1.82 MPa) load, 151 degrees F (66 degrees C) at 66 psi (0.46 MPa) load.
       11. Izod Impact Strength, ASTM D256: 0.26 l/in (45.53 N/m).
       12. Tensile Strength, ASTM C307: 1,690 psi (11.65 MPa).
       13. Shor D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.
    2. Eco-PT Topcoat: A high solids, thickened epoxy for sealing an overlay or if an "orange peel" texture is desired.
       1. Percent Solids, by weight (by volume), ASTM D2369: A + B: 95.12 (94.92).
       2. Volatile Organic Compound-VOC, ASTM D3960L: A + B: 0.44 lb/gal (53 g/L).
       3. Abrasion Resistance, mg loss, Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060: 83.
       4. Tensile Strength, ASTM D2370: 8,000 psi (55.16 MPa).
       5. Percent Elongation, ASTM D2370: 5.
       6. Shore D Hardness, ASTM D2240: 75-80 at 0 sec, 70-75 at 15 sec.
    3. Eco-RCE: A two-component, rapid cure high solids epoxy designed for experienced applicators.
       1. Volatile Organic Compound-VOC, EPA-Method 24: Less than 100 g/L at 10 mils (0.25 mm) or greater.
       2. Density-lb/gal (kg/L), ASTM D1475: A-9.46/1.135, B-8.22 / 0.986 A/B-9.04 / 1.085.
       3. Percent Solids (Nonvolatiles), ASTM D2369, Method E: Greater than or equal to 90.79 at 10 mils or greater.
       4. Tensile Strength, ASTM D2370: 5,200 psi (35.9 MPa).
       5. Percent Elongation, ASTM D2370: 4.
       6. Shore D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.
    4. Eco-RCE/M: A two-component, rapid cure high-solids epoxy. Applied at 3 mils (0.08 mm ) for priming or up to 30 mils (0.76 mm) as a build coat.
       1. Volatile Organic Compound-VOC, Calculated: 173.4 g/L.
       2. Density-lb/gal (kg/L), ASTM D1475: A-9.46/1.135, B-8.39/ 1.007 A/B-9.10 / 1.09.
       3. Percent Solids (nonvolatiles), Calculated: 84.1.
       4. Compressive Strength, ASTM D695: 13,500 psi (93.1 MPa).
       5. Tensile Strength, ASTM D2370: 7,000 psi (48.3 MPa).
       6. Percent Elongation, ASTM D2370: 5.
       7. Shore D Hardness, ASTM D2240: 75-80 at 0 sec, 70-75 at 15 sec.
    5. Eco-TCP: A two-component, high solids, thick coat polyaspartic.
       1. Percent Solids, by weight (by volume), ASTM D1475, A + B: 91.59 (91.47).
       2. Volatile Organic Compounds-VOC, ASTM D3960: 0.30 lb/gal (37 g/L).
       3. Abrasion Resistance, mg loss, Taber Abraser (CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revolutions), ASTM D4060: 43.
       4. Wet Static Coefficient of Friction, BOT 3000, ANSI/NFSI B101.1: 0.99.
       5. Resistance to Yellowing, As measured using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154, Less than 20 increase of yellowing units (CIE Lab Delta (b))
       6. Tensile Strength, ASTM D2370: 6,913 psi (47.66 MPa).
       7. Percent Elongation, ASTM D2370: 8.
       8. Thermal Stability/Heat resistance, MIL-D-3134J Section 4.6.3: No slip/flow, softening or change in appearance.
       9. Water Absorption, 24-hour immersion, ASTM C413: 0.2 percent weight increase.
    6. Eco-TCU: A two-component, high solids, 100 percent aliphatic urethane.
       1. Flash Point, Seta Closed Cup, ASTM D3278: A Greater than 125 degrees F (52 degrees C), B Greater than 138 degrees F (59 degrees C).
       2. Percent Solids, by weight, ASTM D2369: A 88.4, B 93.6, A + B 90.6.
       3. Density, ASTM D1475: A 8.54 lb/gal (1.03 kg/L), B 9.46 lb/gal (1.13 kg/L), A + B 8.91 lb/gal (1.07 kg/L).
       4. Viscosity, Brookfield, ASTM D2196: A- 175-225 cps, B- 600-650 cps, A + B = 275-375 cps.
       5. Volatile Organic Compound-VOC, ASTM D3960L: A + B: 0.8 lb/gal (100 g/L).
       6. Abrasion Resistance, mg loss, Taber Abraser, ASTM D4060: 70-90.
       7. Coefficient of Friction-COF, James Friction Tester, ASTM D2047: Greater than or equal to 0.38.
       8. Tensile Strength, ASTM D2370: 7,000 psi (48,300 kPa).
       9. Percent Elongation, ASTM D2370: 7.
       10. Konig Hardness (1 mil film), ASTM D4366: 154.
    7. Eco-SCT-Gloss: A three component high solids epoxy that contains conductive powder. It is applied at 15-20 mils over an electrically insulating coat of Tennant epoxy.
       1. Surface Resistance, Point to Point / Point to Ground, ESD Assoc. ANSI/ESD STM 7.1-2013: 1x10^5 ohms to 1x10^9 ohms
       2. Volatile Organic Compound-VOC, ASTM D3960L: 0.79 lb/gal (94 g/L)
       3. Abrasion Resistance, Taber Abraser CS-17 Taber Abrasion Wheel 1,000 g Load, 1,000 revs, ASTM D4060, 90-100
       4. Coefficient of Friction, James Friction Tester, ASTM D2047: 0.50-0.055
       5. Adhesion to Concrete, ASTM D4541, 450 psi (3.10MPa), concrete failed.
       6. Adhesion to Concrete, ASTM D7234, 732 psi (4.48 MPa)
       7. Wet Static Coefficient of Friction-BOT 3000, ANSI/NSFI B101.1-2009, 0.97
       8. Compressive Strength (epoxy), ASTM D695, 13,500 psi (93.1 MPa)
       9. Tensile Strength, ASTM D2370, 8,000 psi (55.158 MPa)
       10. Percent Elongation, ASTM D2370, 5
       11. Shore D Hardness (epoxy), ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.
       12. Water Absorption (24-hour immersion), ASTM D570: 0.2 percent weight increase.
    8. Eco-SDS-Satin: Is a high solids and light stable urethane which has a satin appearance for long lasting durability. Applied over Eco-MPE primer or may be used to recoat an existing epoxy or urethane floor coating.
       1. Surface Resistance, Point to Point / Point to Ground, ESD Assoc. ANSI/ESD 7.1-2005, 1x10^5 ohms to less than 1x10^9.
       2. Resistance to Ground in Combination with a Person, ANSI/ESD STM 97.1 (ANSI/ESD S20.20-Mthod 1), less than 3.5x10^7 ohms (ESD shoes or heel straps)
       3. Body Voltage Generation, ANSI/ESD STM 97.2 (ASNI/ESD S20.20-Method 2), 12 volts with ESD shoes, 32 volts with heel straps.
       4. Body Voltage Decay (with ESD shoes of heel straps), AATCC 134-1979 (modified), 1,000 volts to less than 10 volts in less than 1.0 second.
       5. Volatile Organic Compound-VOC, ASTM D3960L: 0.11 lb/gal (less than 13 g/L)
       6. Abrasion Resistance, Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060, 38
       7. Adhesion to Concrete, ASTM D44541, 450 psi (3.10 MPa)
       8. Adhesion to Concrete, ASTM D7234, 732 psi (4.48 MPa)
       9. Coefficient of Friction, James Friction Tester, ASTM D2047: 0.50
       10. Wet Static Coefficient of Friction-BOT 3000, ANSI/NSFI V101.1, 0.95
       11. Compressive Strength (epoxy), ASTM D695, 13,500 psi (93.1 MPa)
       12. Flammability/Rate of Burn, Topcoat Resin, ASTM D635: 50 mm/min
       13. Tensile Strength, ASTM D2370, 6,250 psi (43.1 MPa)
       14. Percent Elongation, ASTM D2370, 6
       15. Resistance to Yellowing, AS measured using ASTM D2244 after 1000 Consecutive hrs UV Exposure in QUV, ASTM G154, less than 10 increase to yellow units (CIE Delta (b))
       16. Kong Hardness (3mil/0.08 mm film), Topcoat Resin, ASTM D4366, 171.3
       17. Shore D Hardness (epoxy), ASTM D2240: 80-85 at 0 Sec, 75-80 at 15 sec.
       18. Water Absorption (24-hour immersion), ASTM D570: 0.2 percent weight increase.
    9. Eco-UVE: Ultraviolet Epoxy. High solids, two-component epoxy with excellent UV resistance. To seal quartz and flake applications and a primary component of the metallic system. May be used as a standalone coating.

\*\* NOTE TO SPECIFIER \*\* Delete orange peel surface texture if not required.

* + - 1. Orange-Peel Surface Texture Using Fumed Silica: Available for thicker applications
      2. Liquid Properties:
         1. Percent Solids, per ASTM D2369.

By Weight: A+B = 97.87 percent.

By Volume: A+B = 96.25 percent.

* + - * 1. Volatile Organic Compounds per ASTM D3960: A+B = 0.19 lbs per gal (23 grams per L).
      1. Dry-Film Cured Coat Properties: Based on conditions at 77 degrees F (25 degrees C).
         1. Abrasion Resistance per ASTM D4060: 57.8 mg loss.

Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions.

* + - * 1. Adhesion to Concrete per ASTM D4541: Greater than 1,250 psi (8.62 MPa) (No coating adhesion failure, concrete failed).
        2. Adhesion to Concrete per ASTM D7234: Greater than 480 psi (3.31 MPa) (max psi machine can register)
        3. Compressive Strength per ASTM D695: 16,450 psi (113.419 MPa)
        4. Tensile Strength per ASTM D2370: 9,500 psi (65.500 MPa).
        5. Percent Elongation per ASTM D2370: 7 percent.
        6. Shore D Hardness per ASTM D2240: 80 to 85 at 0 sec. 70 to 85 at 15 sec.
        7. Thermal Stability and Heat Resistance Tested on Steel Panel, 5 hours at 158 degrees F ( degrees C) per MIL-D-3134J, Section 4.6.3: No slip/flow, no softening or change in appearance.
        8. Water Absorption per ASTM D570: 2.35 percent weight increase after 24 hour immersion, resin only.
      1. General Product Information:
         1. Storage: Indoors between 65 degrees F (18 degrees C) and 90 degrees F (32 degrees C).
         2. Shelf Life: One year from date of manufacture.
         3. Color: White.
         4. Color: Yellow.
         5. Color: Light gray.
         6. Color: \_\_\_\_\_\_\_\_.
         7. Color: as determined by the Architect.
      2. Chemical Resistance Properties: Tested per ASTM D1308 Methiod 3.1.1

\*\* NOTE TO SPECIFIER \*\* See TDS from manufacturer for more detailed information.

* + - * 1. Excellent or Good resistance to most chemicals tested.

Methylene Chloride: Poor.

Methanol: Poor after 24 hours.

Methyl Ethyl Ketone: Poor after 24 hours.

* + 1. Eco-FLP-E: A two-component, liquid applied, solvenated epoxy-polyamine primer.
       1. Volatile Organic Compound-VOC, ASTM D2369-81: 0.83 lb/gal (100 g/L).
       2. Specific Gravity: A 1.30, B 1.89.
       3. Total Solids, by weight, ASTM D2369: 90 +/- 2 percent.
       4. Total Solids, by volume, ASTM D2697: 84 +/- 2 percent.
    2. Eco-FLB: A single-component, solvent free, TDI free, liquid applied, water catalyzed, polyurethane elastomeric waterproofing base membrane.
       1. Volatile Organic Compound-VOC, ASTM D2369-81: Greater than 0.5 lb/gal (Greater than 55 g/L).
       2. Shore A Hardness, ASTM D2240: 60 +/- 5.
       3. Tear Resistance, Die C, ASTM D624: 250 +/- 25 pli (44 +/- 5 kN/m).
       4. Tensile Strength, ASTM D412: 1,350 +/- 150 psi (9.3 +/- 1 MPa).
       5. Ultimate Elongation, ASTM D412: 675 +/- 10 percent.
       6. Water Absorption, ASTM D471: 0.05 percent by weight.
    3. MMA Primer: A low viscosity, penetrating, fast-setting methyl methacrylate (MMA) primer.
       1. Flash Point degrees F/C, Seta Closed Cup, ASTM D3278: Flammable Liquid.
       2. Percent Solids, by weight, ASTM D2369: 100.
       3. Percent Reactive Resin: 100.
       4. Density, ASTM D1475: 8.2 lb/gal (0.98 kg/L).
       5. Viscosity, Brookfield, ASTM D2393: 120-150 cps.
       6. Volatile Organic Compound-VOC, ASTM D3960L: A + B: 0.42 lb/gal (Less than 50 g/L).
       7. Water Absorption, ASTM D570: Less than 0.1 percent.
       8. Shore D Hardness, ASTM D2240: 83.
       9. Tensile Strength, (MPa), ASTM C307: 4,250 psi (29.30 MPa)
       10. Tensile Strength, ASTM D638: 3,800 psi (26.20 MPa).
       11. Tensile Modulus, ASTM D638: 0.00004 psi (0.276 Pa).
       12. Mandrel Flexibility at 1/8 inch (0.32cm): Passes.
       13. Coefficient of Thermal Expansion, ASTM D696: 0.000035.
       14. Electrical Resistivity, ASTM D257: Volume Resistance 10^15 ohm-cm, Surface Resistance: 10^12 ohm-cm.
       15. Elongation at Break, ASTM D638: 3 percent.
    4. MMA Body Coat: A semi self-leveling, methyl methacrylate (MMA) body coat. It must be broadcast with quartz/flake to rejection.
       1. Flash Point degrees F/C, Seta Closed Cup, ASTM D3278: Flammable Liquid.
       2. Percent Solid, by weight, ASTM D2369: 100.
       3. Density, ASTM D1475: 8.17 lb/gal (0.98 g/L).
       4. Viscosity, Brookfield, ASTM D2393: 300-500 cps.
       5. Volatile Organic Compound-VOC, ASTM D3960: 0 lb/gal (0 kg/L).
       6. Water Absorption, ASTM D570: Less than 0.1 percent.
       7. Compressive Strength, ASTM C109: 6,500 psi (45 MPa).
       8. Tensile Strength, ASTM C307: 2.000 psi (14 MPa).
       9. Flexural Strength, ASTM C348: 2,800 psi (19 MPa).
       10. Shor D Hardness, ASTM D2240: 62.
       11. Elongation at Break, ASTM D628: 35 percent.
       12. Coefficient Thermal Expansion, VDE 0304: 0.000035 degrees F (-17.8 degrees C).
       13. Vicat Temperature, DIN 53460: 140 degrees F (60 degrees C).
    5. MMA Topcoat: A high build, methyl methacrylate (MMA) coating which dries clear and is intended for the use as a topcoat.
       1. Flash Point degrees F/C, Seta Closed Cup, ASTM D3278: Flammable Liquid.
       2. Percent Solid, by weight, ASTM D2369: 100.
       3. Density, ASTM D1475: 8.09-8.42 lb/gal (0.97-1.01 g/L).
       4. Viscosity, cps, Brookfield, ASTM D2393: 80-90.
       5. Volatile Organic Compound-VOC, ASTM D3960: 0 lb/gal (0 kg/L).
       6. Water Absorption, ASTM D570: Less than 0.1 percent.
       7. Compressive Strength, ASTM C109: 7,500 psi (52 MPa).
       8. Tensile Strength, ASTM C307: 2.100 psi (14 MPa).
       9. Flexural Strength, ASTM C348: 3,100 psi (21 MPa).
    6. WearGuard-240 Gloss: A one-component, moisture-cure aromatic urethane for protecting interior concrete floors.
       1. Volatile Organic Compound-VOC, ASTM D3960L: A+B 2.06 lb/gal (247 g/L)
       2. Abrasion Resistance, Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060, 20-30 mg loss.
       3. Coefficient of Friction-James Friction Test, ASTM D2047: 0.52-0.055.
       4. Tensile Strength, ASTM, D2370, 5,600 psi (38.61 MPa).
       5. Percent Elongation, ASTM D2370, 76.
    7. WearGuard-240 Satin: A one-component, moisture-cure aromatic urethane for protecting interior concrete floors.
       1. Volatile Organic Compound-VOC, ASTM D3960L: A+B 1.70 lb/gal (203 g/L).
       2. Abrasion Resistance, Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 g Load, 1,000 revs, ASTM D4060, 18-23 mg loss.
       3. Coefficient of Friction-James Friction Test, ASTM D2047: 0.70-0.75.
       4. Tensile Strength, Resin Only, ASTM D2370, 5,600 psi (38.61 MPa).
       5. Percent Elongation, Resin Only, ASTM D2370, 76.
       6. Kong Hardness 3mil (10.08 mm film), Resin Only, ASTM D4366, 130-160.
    8. Decorative Flake: Water-based resin material, inorganic minerals, additives, integrally pigmented.
       1. Shape: Random.
       2. Size: 1/4,1/8, or Micro.
       3. Surface Texture: Smooth.
       4. Color: Selected by Architect.
    9. Decorative Quartz (Broadcast): Description, Color-coated, uniformly shaped and sized quartz granules
       1. Grain Size: 40 mesh.
       2. Mohs Hardness: 6.5-7.
       3. Bulk Density, ASTM C29, packed: 90-105 pcf.
       4. Specific Gravity, ASTM C128: 2.65.
       5. Moisture Content, ASTM C566: Less than 0.05 percent.
       6. Colorfastness/UV Stability, ASTM G155: 1,000 hours, pass.
       7. Color: Selected by Architect.
    10. Decorative Quartz (Troweled): Description, Color-coated, uniformly shaped and sized quartz granules
        1. Grain Size: 25 mesh.
        2. Mohs Hardness: 6.5-7.
        3. Bulk Density, ASTM C29, packed: 90-105 pcf.
        4. Specific Gravity, ASTM C128: 2.65.
        5. Moisture Content, ASTM C566: Less than 0.05 percent.
        6. Colorfastness/UV Stability, ASTM G155: 1,000 hours, pass.
        7. Color: Selected by Architect.

1. EXECUTION
   1. EXAMINATION
      1. Examine concrete surfaces to receive resinous system. Verify concrete is structurally sound.
      2. Moisture Testing of Concrete: Perform at least one of the following two tests to determine moisture in concrete. Type of test and frequency as recommended by manufacturer and installer.

\*\* NOTE TO SPECIFIER \*\* Delete the subparagraph for Calcium Chloride Test if not required.

* + - 1. Calcium Chloride Test:
         1. Measure moisture vapor emission rate of concrete in accordance with ASTM F 1869.
         2. Application of resinous system shall start only if test results are below the following amount.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

3 pounds per 1,000 sq ft over a 24 hr period.

12 pounds per 1,000 sq ft over a 24 hr period.

23 pounds per 1,000 sq ft over a 24 hr period.

* + - * 1. If test results are above limits, notify Architect and flooring manufacturer in writing.
      1. In-Situ Probe Test:
         1. Measure relative humidity in concrete in accordance with ASTM F 2170.
         2. Application of resinous system shall start only if test results are below the following percentage relative concrete humidity.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

75 percent.

77 percent.

85 percent.

95 percent.

99 percent.

* + - * 1. If test results are above limits, notify Architect and manufacturer in writing.
    1. Do not begin preparation or installation until satisfactory moisture test results are achieved. Provide manufacturer's recommended moisture vapor control coating if required.
  1. PREPARATION
     1. Clean surfaces thoroughly prior to installation.
     2. Protection of In-Place Conditions: Protect adjacent surfaces and adjoining walls from contact with resinous system materials.
     3. Surface Preparation:
        1. Prepare concrete surface in accordance with manufacturer's instructions.
        2. Remove dirt, dust, debris, oil, grease, curing agents, bond breakers, paint, coatings, sealers, silicones, and other surface contaminants which could adversely affect application of resinous system.
        3. Steel shot blast concrete to a minimum surface profile of ICRI 310.2R, CSP 5.
        4. Key-cut termination points with 1/4-inch (6-mm) by 1/4-inch (6-mm) cut.
        5. Patch depressions, divots, and cracks in concrete in accordance with manufacturer's instructions.
        6. Mechanically remove loose, delaminated, and damaged concrete and repair in accordance with manufacturer's instructions.
        7. Joints: Fill joints in accordance with manufacturer's instructions.
  2. INSTALLATION
     1. Install resinous system in accordance with manufacturer's instructions and approved submittals at locations indicated on the Drawings.
     2. Ensure concrete is dry, clean, and prepared in accordance with manufacturer's instructions.
     3. Allow concrete to cure a minimum of 7 days before applying resinous system.
     4. Mixing:
        1. Mix material components together in accordance with manufacturer's instructions.
        2. Mix only enough material that can be applied within working time.
        3. Add and mix colorants with materials in accordance with manufacturer's instructions to achieve uniform color.
     5. Apply resinous system materials to obtain consistent mil thickness and smooth, uniform appearance and texture.
     6. Overlay: Apply overlay in accordance with manufacturer's instructions. Apply overlay to prepared concrete surface.
     7. Traction Aggregate: Broadcast traction aggregate in accordance with manufacturer's instructions. Broadcast traction aggregate into wet overlay.

\*\* NOTE TO SPECIFIER \*\* A cove applied to base of wall and equipment pads is optional. Delete the cove if not required.

* + 1. Cove:
       1. Apply cove primer and cove in accordance with manufacturer's instructions at locations indicated on the Drawings.
       2. Apply cove to height and shape as indicated on the Drawings.
       3. Apply cove to create seamless, smooth transition between flooring and walls.
    2. Seal Coat:
       1. Apply seal coat in accordance with manufacturer's instructions.
       2. Apply seal coat over traction aggregate.
  1. FIELD QUALITY CONTROL
     1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
  1. CLEANING AND PROTECTION
     1. Allow resinous system to dry in accordance with manufacturer's instructions before opening to traffic.
     2. Allow resinous system to dry a minimum of 1 week before cleaning by mechanical means.
     3. Protect completed resinous system from damage during construction.

END OF SECTION