SECTION 09 96 63

INDUSTRIAL PAINTS AND COATINGS

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\*\* NOTE TO SPECIFIER \*\* Kelly-Moore Paints; paint and coating products.  
 .  
 This section is based on the products of Kelly-Moore Paints, which is located at:  
987 Commercial St.  
San Carlos, CA 94070  
Toll Free Tel: 888-MR PAINT  
Tel: 888-kmcolor  
Fax: 650-592-1215  
Email: [request info (epatricio@kellymoore.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Kelly-Moore+Paints&coid=34943&rep=&fax=650-592-1215&message=RE:%20Spec%20Question%20(09960kmp):%20%20&mf=)  
Web: [www.kellymoore.com](http://www.kellymoore.com)   
[ [Click Here](http://www.arcat.com/arcatcos/cos34/arc34943.html) ] for additional information.

Kelly Moore is the largest employee owned paint company in the United States. With over 2200 employees, four major manufacturing facilities and over 160 retail stores in 10 states, we enjoy a reputation as leaders and innovators in the ever changing paint industry. The success of our company is based on our commitment to quality products and personalized service.

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Surface preparation and field painting of exposed interior items and surfaces.
    2. Surface preparation and field painting of exposed exterior items and surfaces.
    3. Surface preparation and field application of interior high-performance coating systems to items and surfaces scheduled.
    4. Surface preparation and field application of exterior high-performance coating systems to items and surfaces scheduled.
    5. Painting of exposed bare and covered pipes and ducts, hangers, exposed steel and iron supports, and surfaces of mechanical and electrical equipment that do not have a factory-applied final finish.
  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.
    2. Section 05 12 16 - Fabricated Fireproofed Steel Columns.
    3. Section 05 50 00 - Metal Fabrications.
    4. Section 06 20 00 - Finish Carpentry.
    5. Section 08 11 13 - Custom Hollow Metal Doors and Frames.
    6. Section 09 21 16 - Gypsum Board Shaft Wall Assemblies.
    7. Section 23 05 00 - Common Work Results for HVAC.
    8. Section 26 05 00 - Common Work Results for Electrical.
  1. REFERENCES

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

* + 1. American Society for Testing and Materials (ASTM) D 16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications.
    2. Steel Structures Painting Council (SSPC) SP6 - Commercial Blast Cleaning Procedures.
    3. Steel Structures Painting Council (SSPC) SP10 - Near White Blast Cleaning Procedure.
  1. DEFINITIONS
     1. General: Standard coating terms defined within Masters Painters Institute (MPI) manual.
        1. Gloss level 1 - Flat with a gloss range below 3 when measured at a 60-degree meter and 10 when measured at an 85-degree meter.
        2. Gloss level 2 - Low Sheen with a gloss range of 5 to 10 when measured at a 60 degree meter and 10 to 35 when measured at an 85 degree meter.
        3. Gloss level 3 - Eggshell with a gloss range between 10 and 15 when measured at a 60-degree meter and 10 to 35 when measured at an 85-degree meter.
        4. Gloss level 4 - Satin with a gloss range between 25 to 35 when measured with a 60 degree meter.
        5. Gloss level 5 - Semi-Gloss with a gloss range between 50 and 55 when measured at a 60 degree meter.
        6. Gloss level 6 - Gloss with a gloss range more than 70 when measured at a 60 degree meter.
  2. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Material List: An inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
        2. Preparation instructions and recommendations.
        3. Manufacturer's Information: Manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
  1. QUALITY ASSURANCE
     1. Installer Qualifications: A firm or individual experienced in applying paints and coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
     2. Obtain block fillers and primers for each coating system from the same manufacturer as the finish coats.
     3. Paint exposed surfaces. If an item or a surface is not specifically mentioned, paint the item or surface the same as similar adjacent materials or surfaces. If a color of finish is not indicated, Architect will select from standard colors and finishes available.
     4. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project 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: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Deliver materials to Project site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label:
     2. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F (7 deg C). Maintain storage containers in a clean condition, free of foreign materials and residue.
     3. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
     4. Apply waterborne paints only when temperatures of surfaces to be painted and surrounding air are between 50 and 90 deg F (10 and 32 deg C).
     5. Apply solvent-thinned paints only when temperatures of surfaces to be painted and surrounding air are between 45 and 95 deg F (7 and 35 deg C).
     6. Do not apply paint in snow, rain, fog, or mist; or when relative humidity exceeds 85 percent; or at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.
        1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

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

* 1. EXTRA MATERIALS
     1. Furnish extra paint materials from the same production run as the materials applied and in the quantities described below. Package with protective covering for storage and identify with labels describing contents. Deliver extra materials to Owner.
     2. Quantity: Furnish Owner with an additional three percent, but not less than 1 gal (3.8 l) or 1 case, as appropriate, of each material and color applied.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Kelly-Moore Paints, which is located at: 987 Commercial St.; San Carlos, CA 94070; Toll Free Tel: 888-MR PAINT; Tel: 888-kmcolor; Fax: 650-592-1215; Email: [request info (epatricio@kellymoore.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Kelly-Moore+Paints&coid=34943&rep=&fax=650-592-1215&message=RE:%20Spec%20Question%20(09960kmp):%20%20&mf=); Web: [www.kellymoore.com](http://www.kellymoore.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.
  1. PAINT MATERlALS - GENERAL
     1. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

\*\* NOTE TO SPECIFIER \*\* Revise VOC rating to suit local regulations or Owner's requirements. Delete if not required.

* + 1. VOC Classification: Provide materials, including primers, undercoats, and finish-coat materials, that meet local air quality management district regulations.
    2. Color: Refer to Finish Schedule and Paint Legend for paint colors.
    3. Application Rate: Coating thickness for primer, intermediate, barrier and finish coats shall be measured as Dry Film Thickness (DFT) and comply with manufacturer's published recommendations.

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

* 1. CONCRETE FLOOR COATING SYSTEMS
     1. KM-S1 High Gloss Thin Film Wear Resistant Floor Coating System:
        1. High Solids Epoxy/Clear Polyurethane:
           1. 1st Coat: KM-1703 100 Percent Solids Epoxy Clear Primer; 8-10 mils dry film thickness.
           2. 2nd Coat: KM-370 High Solids Polyurethane Intermediate Coat; 2-5 mils dry film thickness.
           3. 3rd Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
     2. KM-S1C High Gloss Thin Film Wear Resistant Floor Coating System:
        1. High Solids Epoxy/Clear Polyurethane:
           1. 1st Coat: KM-1703 100 Percent Solids Epoxy Clear Primer; 8-10 mils dry film thickness.
           2. 2nd Coat: KM-370 High Solids Polyurethane Intermediate Coat; 2-5 mils dry film thickness.
           3. 3rd Coat: KM-360 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
     3. KM-1 High Gloss Thin Film Wear Resistant Floor Coating System:
        1. High Solids Epoxy:
           1. 1st Coat: KM-149 Epoxy Clear Primer; 3-5 mils dry film thickness.
           2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 7-10 mils dry film thickness.
           3. 3rd Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
     4. KM-1C High Gloss Thin Film Wear Resistant Floor Coating System:
        1. High Solids Epoxy:
           1. 1st Coat: KM-155 Epoxy Concrete Primer; 5-8 mils dry film thickness.
           2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 7-10 mils dry film thickness.
           3. 3rd Coat: KM-360 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
     5. KM-2 High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
        1. High Solids Epoxy:
           1. 1st Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
           2. 2nd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For enhance adhesion to substrate with KM-2 High Gloss Thin Film Wear and Chemical Resistant Floor Coating System, use KM-149 Epoxy Concrete Primer as base coat.

* + 1. KM-2 Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-149 Epoxy Concrete Primer. 3-5 mils
          2. 2nd Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-332 Polyester Polyurethane.

* + 1. KM-2 Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 6-8 mils dry film thickness.
          3. 3rd Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-352 Polyester Polyurethane.

* + 1. KM-2 Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 6-8 mils dry film thickness.
          3. 3rd Coat: KM-352 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For enhanced adhesion to substrate with KM-2 High Gloss Thin Film Wear and Chemical Resistant Floor Coating System, use KM-149 Epoxy Concrete Primer as base coat. For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-332 Polyester Polyurethane.

* + 1. KM-2 Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-149 Epoxy Concrete Primer. 3-5 mils
          2. 2nd Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 6-8 mils dry film thickness.
          4. 4th Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For enhanced adhesion to substrate with KM-2 High Gloss Thin Film Wear and Chemical Resistant Floor Coating System, use KM-149 Epoxy Concrete Primer as base coat. For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-352 Polyester Polyurethane.

* + 1. KM-2 Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-149 Epoxy Concrete Primer. 3-5 mils
          2. 2nd Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 6-8 mils dry film thickness.
          4. 4th Coat: KM-352 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    2. KM-2C High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For enhanced adhesion to substrate with KM-2C High Gloss Thin Film Wear and Chemical Resistant Floor Coating System system, use KM-155 Epoxy Concrete Primer as base coat.

* + 1. KM-2C Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-155 Epoxy Concrete Primer; 5-8 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-360 Polyester Polyurethane.

* + 1. KM-2C Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.
          3. 3rd Coat: KM-360 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-365 Polyester Polyurethane.

* + 1. KM-2C Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.
          3. 3rd Coat: KM-365 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For enhanced adhesion to substrate with KM-2C High Gloss Thin Film Wear and Chemical Resistant Floor Coating System, use KM-155 Epoxy Concrete Primer as base coat. For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-360 Polyester Polyurethane.

* + 1. KM-2C Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-155 Epoxy Concrete Primer; 5-8 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.
          4. 4th Coat: KM-360 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For enhanced adhesion to substrate with KM-2C High Gloss Thin Film Wear and Chemical Resistant Floor Coating System, use KM-155 Epoxy Concrete Primer as base coat. For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-365 Polyester Polyurethane.

* + 1. KM-2C Alternate High Gloss Thin Film Wear and Chemical Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-155 Epoxy Concrete Primer; 5-8 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic; 7-10 mils dry film thickness.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.
          4. 4th Coat: KM-365 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    2. KM-3C High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-636 Epoxy Primer; 4-7 mils dry film thickness.
          2. 2nd Coat: KM-636 Epoxy Finish Coat; 4-7 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-332 Polyester Polyurethane.

* + 1. KM-3C Alternate High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-636 Epoxy Primer; 4-7 mils dry film thickness.
          2. 2nd Coat: KM-636 Epoxy Finish Coat; 4-7 mils dry film thickness.
          3. 3rd Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-352 Polyester Polyurethane.

* + 1. KM-3C Alternate High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-636 Epoxy Primer; 4-7 mils dry film thickness.
          2. 2nd Coat: KM-636 Epoxy Finish Coat; 4-7 mils dry film thickness.
          3. 3rd Coat: KM-352 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-360 Polyester Polyurethane.

* + 1. KM-3C Alternate High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-636 Epoxy Primer; 4-7 mils dry film thickness.
          2. 2nd Coat: KM-636 Epoxy Finish Coat; 4-7 mils dry film thickness.
          3. 3rd Coat: KM-360 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For areas having heavy forklift traffic, or for additional color and gloss retention, use a topcoat of KM-365 Polyester Polyurethane.

* + 1. KM-3C Alternate High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy:
          1. 1st Coat: KM-636 Epoxy Primer; 4-7 mils dry film thickness.
          2. 2nd Coat: KM-636 Epoxy Finish Coat; 4-7 mils dry film thickness.
          3. 3rd Coat: KM-365 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    2. KM-4C High Gloss Thin Film Wear Resistant Floor Coating System:
       1. 100 Percent Solids Solvent Free:
          1. 1st Coat: KM-1703 100 Percent Solids Epoxy Clear Primer; 8-10 mils dry film thickness.
          2. 2nd Coat: KM-1850 Epoxy Gloss Color Coating; 10-20 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For interior use only. For additional abrasion resistance (such as forklift traffic) apply a topcoat of KM-332 Polyester Polyurethane.

* + 1. KM-4C Alternate High Gloss Thin Film Wear Resistant Floor Coating System:
       1. 100 Percent Solids Solvent Free:
          1. 1st Coat: KM-1703 100 Percent Solids Epoxy Clear Primer; 8-10 mils dry film thickness.
          2. 2nd Coat: KM-1850 Epoxy Gloss Color Coating; 10-20 mils dry film thickness.
          3. 3rd Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For interior use only. For additional abrasion resistance (such as forklift traffic) apply a topcoat of KM-360 Polyester Polyurethane.

* + 1. KM-4C Alternate High Gloss Thin Film Wear Resistant Floor Coating System:
       1. 100 Percent Solids Solvent Free:
          1. 1st Coat: KM-1703 100 Percent Solids Epoxy Clear Primer; 8-10 mils dry film thickness.
          2. 2nd Coat: KM-1850 Epoxy Gloss Color Coating; 10-20 mils dry film thickness.
          3. 3rd Coat: KM-360 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    2. KM-6 High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy/Clear Polyurethane:
          1. 1st Coat: KM-149 Epoxy Concrete Primer. 3-5 mils
          2. 2nd Coat: KM-200 Epoxy Color Coat; 3-5 mils dry film thickness.
          3. 3rd Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    3. KM-8 High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy/Clear Polyurethane:
          1. 1st Coat: KM-149 Epoxy Concrete Primer. 3-5 mils
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.
          3. 3rd Coat: KM-352 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    4. KM-8C High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy/Clear Polyurethane:
          1. 1st Coat: KM-155 Epoxy Concrete Primer; 5-8 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 6-8 mils dry film thickness.
          3. 3rd Coat: KM-365 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    5. KM-9 High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy/Pigmented Polyurethane:
          1. 1st Coat: KM-1703 100 Percent Solids Epoxy Clear Primer; 8-10 mils dry film thickness.
          2. 2nd Coat: KM-1850 Epoxy Gloss Color Coating; 10-20 mils dry film thickness.
          3. 3rd Coat: KM-352 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    6. KM-9C High Gloss Thin Film Wear Resistant Floor Coating System:
       1. High Solids Epoxy/Pigmented Polyurethane:
          1. 1st Coat: KM-1703 100 Percent Solids Epoxy Clear Primer; 8-10 mils dry film thickness.
          2. 2nd Coat: KM-1850 Epoxy Gloss Color Coating; 10-20 mils dry film thickness.
          3. 3rd Coat: KM-365 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
  1. MASONRY COATING SYSTEMS
     1. KM-5 Non-Yellowing, Scrub Resistant Concrete Block Coating System:
        1. Epoxy:
           1. 1st Coat: KM-145 Polyamide Epoxy Block Filler Primer.
           2. 2nd Coat: KM-15 High Build Epoxy Mastic Color Coat; 7-10 mils dry film thickness.
           3. 3rd Coat: KM-270 Polyester Epoxy Coating; 3-5 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For smoother surface use an additional coat of KM-145 Block Filler.

* + 1. KM-5 Alternate Non-Yellowing, Scrub Resistant Concrete Block Coating System:
       1. Epoxy:
          1. 1st Coat: KM-145 Polyamide Epoxy Block Filler Primer.
          2. 2nd Coat: KM-145 Polyamide Epoxy Block Filler.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Color Coat; 7-10 mils dry film thickness.
          4. 4th Coat: KM-270 Polyester Epoxy Coating; 3-5 mils dry film thickness.
    2. KM-7 Exterior Concrete Block Coating System:
       1. Epoxy/High Build Polyurethane Epoxy:
          1. 1st Coat: KM-145 Polyamide Epoxy Block Filler Primer.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Color Coat; 7-10 mils dry film thickness.
          3. 3rd Coat: KM-370 Polyurethane Finish Coat; 3-5 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For smoother surface use an additional coat of KM-145 Block Filler.

* + 1. KM-7 Alternate Exterior Concrete Block Coating System:
       1. Epoxy/High Build Polyurethane Epoxy:
          1. 1st Coat: KM-145 Polyamide Epoxy Block Filler Primer.
          2. 2nd Coat: KM-145 Polyamide Epoxy Block Filler.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Intermediate Color Coat; 7-10 mils dry film thickness.
          4. 4th Coat: KM-370 Polyurethane Finish Coat; 3-5 mils dry film thickness.
  1. FERROUS METAL COATING SYSTEMS
     1. KM-10C Interior Carbon Steel and Tank Coating System:
        1. High Solids High Build Epoxy:
           1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
           2. 2nd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 5-7 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* An intermediate coat of KM-15 High Build Epoxy is recommended for aggressive areas.

* + 1. KM-10C Alternate Interior Carbon Steel and Tank Coating System:
       1. High Solids High Build Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 5-7 mils dry film thickness.
          3. 3rd Coat: KM-15 High Build Epoxy Mastic Finish Coat; 5-7 mils dry film thickness.
    2. KM-11 Interior/Exterior Carbon Steel and Tank Coating System:
       1. High Build Polyurethane:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-370 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For additional color and gloss retention replace KM-370 with KM-398.

* + 1. KM-11 Alternate Interior/Exterior Carbon Steel and Tank Coating System:
       1. High Build Polyurethane:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-398; 2-5 mils dry film thickness.
    2. KM-11C Interior/Exterior Carbon Steel and Tank Coating System:
       1. High Build Polyurethane:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-375 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For additional color and gloss retention replace KM-370 with KM-398.

* + 1. KM-11C Alternate Interior/Exterior Carbon Steel and Tank Coating System:
       1. High Build Polyurethane:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-399; 2-5 mils dry film thickness.
    2. KM-12C Interior Carbon Steel and Tank Coating System:
       1. High Solids High Build Epoxy:
          1. 1st Coat: KM-636 High Build Epoxy Primer; 4-6 mils dry film thickness.
          2. 2nd Coat: KM-636 High Build Epoxy Finish Coat; 4-6 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* An intermediate coat of KM-636 High Build Epoxy is recommended for aggressive areas.

* + 1. KM-12C Alternate Interior Carbon Steel and Tank Coating System:
       1. High Solids High Build Epoxy:
          1. 1st Coat: KM-636 High Build Epoxy Primer; 4-6 mils dry film thickness.
          2. 2nd Coat: KM-636 High Build Epoxy Intermediate Coat; 4-6 mils dry film thickness.
          3. 3rd Coat: KM-636 High Build Epoxy Finish Coat; 4-6 mils dry film thickness.
    2. KM-13C Interior/Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-636 High Build Epoxy Intermediate Coat; 4-6 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For additional color and gloss retention apply a topcoat of KM-370.

* + 1. KM-13C Alternate Interior/Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-636 High Build Epoxy Intermediate Coat; 4-6 mils dry film thickness.
          3. 3rd Coat: KM-370 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.
    2. KM-14C Interior/Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 5-7 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For additional color and gloss retention apply a topcoat of KM-370.

* + 1. KM-14C Alternate Interior/Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 5-7 mils dry film thickness.
          3. 3rd Coat: KM-370 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.
    2. KM-15 Exterior Carbon Steel and Tank Coating System.
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 5-7 mils dry film thickness.
          3. 3rd Coat: KM-352 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    3. KM-15C Exterior Carbon Steel and Tank Coating System.
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 5-7 mils dry film thickness.
          3. 3rd Coat: KM-365 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    4. KM-16 Interior Carbon Steel and Tank Coating System.
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 5-7 mils dry film thickness.
          3. 3rd Coat: KM-332 Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    5. KM-16C Interior Carbon Steel and Tank Coating System.
       1. Polyurethane/Epoxy:
          1. 1st Coat: KM-15 High Build Epoxy Mastic Primer; 5-7 mils dry film thickness.
          2. 2nd Coat: KM-15 High Build Epoxy Mastic Intermediate Coat; 5-7 mils dry film thickness.
          3. 3rd Coat: KM-360 High Gloss Clear Polyester Polyurethane Finish Coat; 2-3 mils dry film thickness.
    6. KM-17 Interior/Exterior Carbon Steel and Tank Coating System.
       1. Polyamide Epoxy:
          1. 1st Coat: KM-110 Rust Inhibitive Epoxy Primer; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-200 High Gloss Epoxy Topcoat.

\*\* NOTE TO SPECIFIER \*\* For additional color and gloss retention apply a topcoat of KM-370.

* + 1. KM-17 Alternate Interior/Exterior Carbon Steel and Tank Coating System.
       1. Polyamide Epoxy:
          1. 1st Coat: KM-110 Rust Inhibitive Epoxy Primer; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-200 High Gloss Epoxy Topcoat.
          3. 3rd Coat: KM-370 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.
    2. KM-18C Interior/Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Urethane Aluminum:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
    3. KM-19 Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Urethane Aluminum:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          3. 3rd Coat: KM-370 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For an even higher degree of color and gloss retention apply a topcoat of KM-370.

* + 1. KM-19 Alternate Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Urethane Aluminum:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          3. 3rd Coat: KM-398; 2-5 mils dry film thickness.
    2. KM-19C Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Urethane Aluminum:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          3. 3rd Coat: KM-375 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.

\*\* NOTE TO SPECIFIER \*\* For an even higher degree of color and gloss retention apply a topcoat of KM-370.

* + 1. KM-19C Alternate Exterior Blasted or Marginally Prepared Steel Coating System:
       1. Urethane Aluminum:
          1. 1st Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-100 Moisture Cured Urethane Aluminum; 2-3 mils dry film thickness.
          3. 3rd Coat: KM-399; 2-5 mils dry film thickness.
    2. KM-20 Interior/Exterior Carbon Steel and Tank Coating System:
       1. High Build Polyurethane:
          1. 1st Coat: KM-183 Universal Rust Inhibitive Primer; 2-3 mils dry film thickness.
          2. 2nd Coat: KM-370 High Gloss Acrylic Polyurethane Coating; 2-5 mils dry film thickness.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
      3. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
         1. Notify Architect about anticipated problems when using the materials specified over substrates primed by others.

\*\* NOTE TO SPECIFIER \*\* Coordinate primers specified in other Sections with undercoats and finish coats specified in this Section to ensure compatibility of materials. Some high-performance coatings will lift incompatible primers or have poor adhesion when applied over zinc-based or baked primers. Delete if not required.

* + - 1. If a potential incompatibility of primers applied by others exists, obtain the following from the primer Applicator before proceeding:
         1. Confirmation of primer's suitability for expected service conditions.
         2. Confirmation of primer's ability to be top coated with materials specified.
  1. PREPARATION
     1. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.
        1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
     2. Cleaning: Before applying paint or other surface treatments, clean substrates of substances that could impair bond of the various coatings. Remove oil and grease before cleaning.
        1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
     3. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.
        1. Provide barrier coats over incompatible primers or remove and reprime.

\*\* NOTE TO SPECIFIER \*\* Coordination of shop-applied prime coats with high-performance coatings is critical. If compatibility problems exist, it may be necessary to provide barrier coats over primers or to remove primer and reprime substrate. Delete if not required.

* + - 1. Provide barrier coats over incompatible primers or remove primers and reprime substrate.

\*\* NOTE TO SPECIFIER \*\* Delete subparagraph and associated subparagraphs below if cementitious surfaces are not to be coated, or revise to suit Project.

* + - 1. Cementitious Substrates: Prepare concrete, brick, concrete masonry block, and cement plaster surfaces to be coated. Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods to prepare surfaces.
         1. Use abrasive blast-cleaning methods if recommended by coating manufacturer.
         2. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not coat surfaces if moisture content exceeds that permitted in manufacturer's written instructions.

\*\* NOTE TO SPECIFIER \*\* Delete subparagraph and associated subparagraphs below if wood surfaces are not to be coated, or revise to suit Project.

* + - 1. Wood Substrates: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Smoothly sand surfaces exposed to view and dust off.
         1. Scrape and clean small, dry, seasoned knots, and apply a thin coat of white shellac or other recommended knot sealer, before applying primer.
         2. Immediately on delivery, prime edges, ends, faces, undersides, and backsides of wood to be coated.
         3. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.
         4. Determine moisture content of surfaces by performing a moisture test. Do not coat if moisture content exceeds 15 percent.

\*\* NOTE TO SPECIFIER \*\* Delete subparagraph and associated subparagraphs below if ferrous-metal surfaces are not to be coated, or revise to suit Project.

* + - 1. Ferrous-Metal Substrates: Clean ungalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with SSPC recommendations.

\*\* NOTE TO SPECIFIER \*\* Delete subparagraph below if blast cleaning is not required. SSPC-SP 10 requires a higher level of preparation than may be justified. Reduce preparation to SSPC-SP 6 if circumstances warrant.

* + - * 1. Blast-clean steel surfaces as recommended by coating manufacturer and according to SSPC-SP 10.

\*\* NOTE TO SPECIFIER \*\* Delete subparagraph below if this treatment is not required.

* + - * 1. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.

\*\* NOTE TO SPECIFIER \*\* Delete subparagraph below if touchup painting of shop-applied primers will be done by material erector or Installer.

* + - * 1. Touch up bare areas and shop-applied prime coats that have been damaged. Wire brush, solvent clean, and touch up with same primer as the shop coat.

\*\* NOTE TO SPECIFIER \*\* Delete subparagraph and associated subparagraph below if nonferrous-metal surfaces are not to be coated, or revise to suit Project.

* + - 1. Nonferrous-Metal Substrates: Clean nonferrous and galvanized surfaces according to manufacturer's written instructions for the type of service, metal substrate, and application required.
         1. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.
    1. Material Preparation: Carefully mix and prepare coating materials according to manufacturer's written instructions.
       1. Maintain containers used in mixing and applying coatings in a clean condition, free of foreign materials and residue.
       2. Stir materials before applying to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into the material. Remove film and, if necessary, strain coating material before using.
       3. Use only the type of thinners approved by manufacturer and only within recommended limits.

\*\* NOTE TO SPECIFIER \*\* If tinting is not required, delete below. Different tints will show through as topcoat erodes.

* + - 1. Tinting: Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of same material are applied. Tint undercoats to match the color of the finish coat, but provide sufficient differences in shade of undercoats to distinguish each separate coat.
  1. APPLICATION

\*\* NOTE TO SPECIFIER \*\* Commercial and residential coatings. Delete if not required.

* + 1. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

\*\* NOTE TO SPECIFIER \*\* High performance coatings only. Delete if not required.

* + 1. General: Apply high-performance coatings according to manufacturer's written instructions.
       1. Use applicators and techniques best suited for the material being applied.
       2. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
       3. Coating surface treatments, and finishes are indicated in the coating system descriptions.
       4. Provide finish coats compatible with primers used.
       5. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
    2. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
       1. The number of coats and film thickness required is the same regardless of application method.
       2. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements.
  1. FIELD QUALITY CONTROL
     1. Owner reserves the right to invoke the following test procedure at any time and as often as Owner deems necessary during the period when paint is being applied:
        1. Owner will engage a qualified independent testing agency to sample paint material being used. Samples of material delivered to Project will be taken, identified, sealed, and certified in the presence of Contractor.
        2. Owner may direct Contractor to stop painting if test results show material being used does not comply with specified requirements. Contractor shall remove noncomplying paint from Project site, pay for testing, and repaint surfaces previously coated with the noncomplying paint. If necessary, Contractor may be required to remove noncomplying paint from previously painted surfaces if, on repainting with specified paint, the two coatings are incompatible.
  2. CLEANING
     1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.
  3. PROTECTION
     1. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect.
     2. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.
     3. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces.

END OF SECTION