SECTION 07 18 00

TRAFFIC COATINGS

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\*\* NOTE TO SPECIFIER \*\* Barrett Company ; hot fluid-applied rubberized asphalt waterproofing.
This section is based on the products of Barrett Company , which is located at:
2926 Chester Ave.
Cleveland, OH 44114
Toll Free Tel: 800-647-0100
Tel: 908-647-0100
Fax: 908-647-0278
Email: [request info (info@barrettroofs.com)](https://arcat.com/rfi?action=email&company=Barrett%252BCompany%252B&message=RE%253A%2520Spec%2520Question%2520(07180bcr)%253A%2520&coid=30815&spec=07180bcr&rep=&fax=908-647-0278)
Web: <http://www.barrettroofs.com>
 [ [Click Here](https://arcat.com/company/barrett-company-30815) ] for additional information.
For over 10 decades the Barrett Company has had hands-on experience, professionally engineered products, and systems in the high-performance roofing and waterproofing markets.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Hybrid polyurea and polyurethane trafficable deck coating.
		2. Two-component solvenated epoxy-polyamine primer.
	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 04 20 00 - Unit Masonry.
		3. Section 06 10 00 - Rough Carpentry.
		4. Section 07 14 16 - Cold Fluid-Applied Waterproofing.
		5. Section - .
		6. Section 07 21 19 - Foamed-In-Place Insulation.
		7. Section 07 62 00 - Sheet Metal Flashing and Trim.
		8. Section 07 72 13 - Manufactured Curbs.
		9. Section 07 91 23 - Backer Rods.
	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 C579 - Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
			2. ASTM C836 - Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course.
			3. ASTM C957 - Standard Specification for High-Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane With Integral Wearing Surface.
			4. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
			5. ASTM D470 - Standard Test Methods for Crosslinked Insulations and Jackets for Wire and Cable.
			6. ASTM D624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
			7. ASTM D2240 - Standard Test Method for Rubber Property - Durometer Hardness.
			8. ASTM D2369 - Standard Test Method for Volatile Content of Coatings.
			9. ASTM D2697 - Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings.
			10. ASTM E96 - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials.
		2. Miami Dade County, Florida.
		3. South Coast Air Quality Management District (SCAQMD).
		4. United States Department of Agriculture (USDA).
	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.
			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 type, size, pattern and color.
		2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		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. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	3. PROJECT CONDITIONS
		1. 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 recommended limits.
	4. WARRANTY
		1. Manufacturer's standard limited warranty unless indicated otherwise.
1. PRODUCTS
	1. MANUFACTURERS
		1. Barrett Company, which is located at: 2926 Chester Ave.; Cleveland, OH 44114; ASD Toll Free: 800-647-0100; Phone: 908-647-0100; Email: \_\_\_\_\_\_\_\_; Web: www.barrettroofs.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 articles not required.

* 1. HYBRID POLYUREA AND POLYURETHANE TRAFFICABLE DECK COATING
		1. Performance Requirements:
			1. Compliance:
				1. ASTM C836.
				2. ASTM E96.
				3. SMAQMD VOC requirements.
			2. Solids by Volume: 95 percent.
			3. Pot Life at 75 degrees F (24 degrees C) and 50 percent RH: 9 minutes.
			4. Tack Free Time: 3 to 4 hours.
			5. Hardness, ASTM D2240, Shore A: 80 plus or minus 3.
			6. Tensile Strength, ASTM D412: 2500 psi (17,200 kPa) plus or minus 100 psi (689 kPa).
			7. Elongation, ASTM D412: 800 percent plus or minus 100 percent.
			8. Tear, ASTM D624: 300 pli (52,500 N/m) plus or minus 25 pli (9100 N/m).
			9. Split Tear, ASTM D470: 100 pli (17,500 N/m) plus or minus 10 pli (1750 N/m).
			10. VOC Content, ASTM D2369: 0.49 lb/gal (59 g/L).
			11. Minimum Application Temperature: 20 degrees F (minus 6.7 degrees C).
		2. Basis of Design: HyppoCoat100; as manufactured by Barrett Company.
			1. Description: An aliphatic two component, fast-setting, rapid-curing, solvent-free, high-performance, and high-solids polyurea/urethane polymer waterproof coating that can be utilized suitably for heavy-duty wearing surface applications on prepared interior or exterior concrete, plywood and metal surfaces.

\*\* NOTE TO SPECIFIER \*\* Delete dry film thickness options not required.

* + - 1. Dry Film Thickness: 36 mil (0.91 mm). Light pedestrian.
			2. Dry Film Thickness: 48 mil (1.2 mm). Heavy pedestrian.
			3. Dry Film Thickness: 55 mil (0.91 mm). Vehicular.
			4. Dry Film Thickness: 65 mil (1.2 mm). Heavy vehicular traffic.
			5. Dry Film Thickness: \_\_\_\_\_.
			6. Features:
				1. Applied at any thickness in one application.
				2. Excellent weathering.
				3. Seamless.
				4. Non-gassing.
				5. Fast curing.
				6. Resists dirt attraction.
				7. Good thermal stability.
				8. Highly flexible over extreme temperatures.
				9. Excellent low temperature flexibility.
				10. No odor.
				11. Recoatable.
				12. Meets SCAQMD VOC Requirements.
	1. TWO-COMPONENT SOLVENATED EPOXY-POLYAMINE PRIMER
		1. Performance Requirements:
			1. Compliance:
				1. ASTM C579.
				2. ASTM C957.
				3. Miami Dade County approved.
				4. Meets USDA criteria.
			2. Pot Life at 75 degrees F (24 degrees C) and 50 percent RH: 75 minutes plus or minus 15 minutes.
			3. Relative Density, Part A: 1.27 plus or minus 0.1.
			4. Relative Density, Part B: 1.85 plus or minus 0.1.
			5. Solids by Volume, ASTM D2369: 90 percent plus or minus 2 percent.
			6. Solids by Weight, ASTM D2697: 84 percent plus or minus 2 percent.
			7. VOC Content, ASTM D2369: 0.75 lb/gal (90 g/L).

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: HyppoCoat PC; as manufactured by Barrett Company.
			1. Performance Requirements:
				1. Viscosity at 75 degrees F (24 degrees C): 600 plus or minus 50.
			2. Description: A two component, solvenated, epoxy-polyamine liquid-applied primer with unique penetrating characteristics.
			3. Dry Film Thickness: 4 mil (0.10 mm) plus or minus 1 mil (0.025 mm).
			4. Features:
				1. Excellent adhesion.
				2. Low viscosity.
				3. Seals concrete.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
	4. FIELD QUALITY CONTROL
		1. Flood Test: Each contiguous area shall be water tested with 2 inches (51 mm) of standing water for a 48 hour period.
			1. Provide for overflow in the event of rain.
			2. Flood tests shall be witnessed and approved by Architect and Manufacturer.
			3. An electric field vector mapping may be used in lieu of the flood test.
		2. Correct any deficiencies in the membrane, if any, as prescribed by material Manufacturer and approved by the Architect.
	5. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturers recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION