SECTION 09 67 23 – RESINOUS FLOORING

1.1 PRODUCTS, GENERAL

A. ASTM C579: Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes. 6,000 psi.

B. ASTM C307: Standard Test Methods for Tensile Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes. 1,500 psi.

C. ASTM C413: Standard Test Methods for Absorption of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes. 1.0 percent maximum.

D. ASTM C531: Standards Test Methods for Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes. 0.00004 inch per inch times deg. F.

E. ASTM D4060: Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser. 0.023 grams loss.

F. ASTM D638: Standard Test Method for Tensile Properties of Plastics. 2-4.

G. ASTM F710: Standard Practice for Preparing Concrete to receive Resilient Flooring.

1.2 RESINOUS FLOORING PRODUCTS

A. Epoxy System Components

1. Body Coat(s)

a. Epoxy.
b. Formulation Description: 100 percent solids.
c. Application Method: Self leveling slurry with broadcast aggregates.

1) Thickness: 3/16 inch minimum.

d. Aggregates: Colored quartz (ceramic coated silica) or vinyl flakes.

B. Urethane System Components (Kitchen)

1. Body Coat(s)

a. Resin: Urethane
b. Formulation Description: Water-based
c. Application Method: Self-leveling slurry with broadcast aggregates.

1) Thickness: 1/4 inch minimum.

d. Aggregates: Natural silica.

C. Topcoat (Optional): UV-resistant sealing or finish coat(s).

1. Resin: Urethane.
2. Formulation Description: 100 percent solids.
3. Type: Clear.

D. Accessories

1. Primer.
2. Waterproof Membrane.
3. Reinforcing Membrane.
4. Patching and Fill Material.

1.3 EXAMINATION

E. Concrete Substrates: Verify that concrete slabs comply with ASTM F 710 and the following:

1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond, moisture, and pH tests recommended in writing by flooring manufacturer.

a. Moisture Content of Slab: 3 pounds per 1,000 sq. ft. or less per RMA test method.

1.4 SUSTAINABLE DESIGN SUBMITTALS

A. Provide documentation supplied by the manufacturer regarding the product's sustainable characteristics. Such documents include, but are not limited to: EPDs, FSC Certifications, HPDs and VOC Emissions Certifications. The intent is to aid in the selection of more sustainable products and materials.

END OF SECTION