SECTION 09 67 23 - RESINOUS FLOORING

SC-100: Resinwerks Solid Color System

 GENERAL

 SUBMITTALS

 Action Submittals:

 Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

 Product Data: Manufacturer’s descriptive data and product attributes for flooring and accessories.

 Samples: [Selection samples.] [Verification samples.]

 Informational Submittals:

 Certificate of Compliance: Certification that installed products meet specified fire hazard requirements.

 Closeout Submittals:

 Maintenance Data.

 QUALITY ASSURANCE

 Installer Qualifications:

 Firm specializing in work of this Section with minimum [2] [\_\_] years’ experience.

 Approved by flooring manufacturer.

 Regulatory Requirements:

 Dynamic coefficient of friction: Minimum [0.43,] [0.60] tested to ANSI A326.3.

 Fire hazard classification: Self-extinguishing, tested to ASTM D635 with maximum [0.25] [\_\_] inch extent of burning.

 Mockup: [10 x 10] [\_\_ x \_\_] feet. Approved mockup [may] [may not] remain as part of the Work.

 WARRANTIES

 Manufacturer’s standard warranty against flooring delamination from substrate and degradation of flooring.

 Installer’s 3-year warranty against flooring failure from defect installation and workmanship.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on Resinwerks, Inc. [www.resinwerks.com](http://www.resinwerks.com).

 Substitutions: [Refer to Division 01.] [Not permitted.]

 MATERIALS

 Resinous Flooring:

 System: SC100 Solid Color Industrial.

 Primer: Vapor Barrier; color pigmented, 100-percent solids, moisture tolerant to 100 percent RH, tested to ASTM F2170 and 24.99 pounds, tested to ASTM F1869.

 Intermediate coat: Bio-Cure EP 1100; 0-VOC, two-component, pigmented, 100-percent solids epoxy.

 Topcoat: HDC 100 Urethane; two-component, pigmented, 100-percent solids, UV-resistant, and abrasion resistant.

 Properties:

* + - * 1. Color: [\_\_\_\_\_] [to be selected from manufacturer's full color range].
				2. Finish: Gloss.
				3. Compressive Strength: 3,200 PSI, tested to ASTM C695.
				4. Permeability: 0.059 perms, tested to ASTM E96.
				5. Water Absorption: Less than 0.1-percent, tested to ASTM D570.
				6. Impact Resistances: Minimum of 160 pounds, tested to ASTM D2794.
				7. Adhesion Strength: 500 PSI or concrete cohesive failure, tested to ASTM D4541.
				8. Elongation/ Tensile: 2,500 PSI, tested to ASTM D638.
				9. Flexibility 1/4-inch mandrel: Pass, tested to 522I.
				10. Hardness: 92 shore D, tested to ASTM D2240.
				11. Taber Abrasion: Maximum of 16mg loss, tested to ASTM D4060.

 ACCESSORIES

 [Elastomeric Membrane: LevelGuard EM, two-component elastomeric epoxy.]

 [Coving: Manufacturer’s recommended, epoxy-aggregate based mixture.]

 [Traction Additive: Manufacturer’s [40] [60] [100] mesh.]

 [Floor Safety Markings: Manufacturer’s recommend materials.]

 Substrate Repair: Manufacturer’s recommended materials.

 Moisture Tolerant Primer: 100% solids, epoxy-based coating.

* + - 1. Relative humidity: Tolerant to 99% RH exposure, tested to ASTM F2170.
			2. Vapor Emission: Tolerant to 24 lbs. emissions, tested ASTM F1869.

 EXECUTION

 PREPARATION

 Clean surfaces of contaminates and mechanically profile substrate in accordance with manufacturer’s instructions.

 Test substrate for moisture emission to ASTM F1869 and relative humidity to ASTM F2170.

* + - 1. Install moisture tolerant primer in areas exceeding 5.0 pounds of emission and 76% relative humidity.

 INSTALLATION

 Install cove strip at floor to wall junction.

 Apply flooring in accordance with manufacturer's instructions to minimum thickness specified.

 [Cove flooring at vertical surfaces to a height of [4] [6] [\_\_] inches.]

END OF SECTION