SECTION 09 67 23 - RESINOUS FLOORING

BioCem™ SLQ: Urethane Cement System with Decorative Quartz Broadcast

 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

 Quartz Urethane Cement Flooring:

 System: BioCem SLQ

 Primer: Bio-Chem SL; 1/8-inch thick, medium-duty, seamless, self-leveling, solid color, three-component, water dispersed polyurethane-based cement and aggregates for abrasion, impact, and chemical resistance, in [\_\_\_\_\_\_\_] color, broadcasted with quartz aggregate in [\_\_\_\_\_\_] color to 100-percent refusal.

 Intermediate Coat: LevelGuard EP; two-component, 100-percent solids, 0-VOC, UV-stable, water-clear cycloaliphatic epoxy, broadcasted with quartz aggregate broad cast in specified color to 100-percent refusal.

 Grout coat: LevelGuard EP; two-component, UV-stable, water-clear cycloaliphatic epoxy, 0-VOC, 100-percent solids.

 Topcoat: [HDC 100 Urethane; two-component, UV-stable, abrasion resistant, high-solids in [satin] [semi-gloss] finish.]

 Physical Properties:

* + - * 1. Compressive Strength: 8,000 PSI, tested to ASTM C695.
				2. Water Absorption: Less than 0.1-percent, tested to ASTM D570.
				3. Adhesion Strength: 500 PSI or concrete cohesive failure, tested to ASTM D4541.
				4. Elongation/ Tensile: 5,200 PSI, tested to ASTM D638.
				5. Flexibility 1/4-inch mandrel: Pass, tested to 522I.
				6. Hardness/ Shore D: 90, tested to ASTM D2240.
				7. Impact Resistances: Minimum of 160 inch-pound, tested to ASTM D2794.

 ACCESSORIES

 [Divider Strips: White alloy of zinc or brass; type recommended by resinous flooring manufacturer.]

 Substrate Repair: Manufacturer’s recommended materials.

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

 Primers:

 Manufacturer’s moisture resistant, 100% solids, epoxy-based coating, tolerant to 99% RH exposure per ASTM F2170 and 24 lbs. emissions per ASTM F1869.

 Manufacturer’s recommended standard primer.

 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