SECTION 09 67 23 - RESINOUS FLOORING

BioCem MF: Resinwerks Urethane Cement 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 0.42, tested to ANSI A326.3.

 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 installation warranty against installation defects 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

 Urethane Cement Flooring:

 Product: BioCem™ MF

 Primer: BioCem Monofloor; 3/16-inch, self-priming, heavy-duty, seamless, three-component, water dispersed polyurethane-based cement and aggregates for abrasion, impact, and chemical resistance, in [\_\_\_\_] color. [to be selected from manufacturer's full color range.]

 Aggregate: Board cast manufacturer’s F style aggregate or solid color 40-S quartz to refusal.

 Topcoat Options:

* + - * 1. BioChem TC, three-component, polyurethane in [\_\_\_\_] color, matte finish.
				2. Kinetic HS, two component polyaspartic aliphatic polyurea in [\_\_\_\_] color, gloss finish.
				3. Novolac Epoxy, two component chemical resistant epoxy in grey color, semi-gloss finish

 Physical properties:

* + - * 1. Total Thickness: Nominal 1/4 inch.
				2. Finish: Matte , Gloss or Semi-Gloss finish depending on topcoat
				3. Compressive Strength: 9,350 PSI, tested to ASTM C695.
				4. Water Absorption: Less than 0.1-percent, tested to ASTM D570.
				5. Adhesion Strength: 500 PSI or concrete cohesive failure, tested to ASTM D4541.
				6. Elongation/ Tensile: 1,200 PSI, tested to ASTM D638.
				7. Flexural Strength: 2,500 PSI, tested to ASTM C580.
				8. Flexibility 1/4-inch mandrel: Pass, tested to 522I.
				9. Impact Resistances: Minimum of 160 inch-pound, tested to ASTM D2794.

 ACCESSORIES

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

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

 Substrate Repair: Manufacturer’s recommended materials.

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