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Utilize this section to specify a custom cementitious decorative topping over concrete floors surfaces. Topping may be natural color or colored or have stencils applied for decorative floor design.

Obtaining samples and requiring a mock-up is mandatory for selecting the final appearance, design and gloss level.

Topping is a mixture of cement, sand, aggregates, integral colors or dye colorants samples are selected by the Architect prior to bid and on site mock-up installed to serve as a final surface approval.

For assistance in selecting decorative concrete material samples, contact Floor Seal Technology, Inc. calling 800-572-2344 or visit [www.floorseal.com](http://www.floorseal.com)

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**SECTION 03 35 16 – CONCRETE TOPPING**

1. **GENERAL**
	1. SUBMITTALS
		1. Action Submittals:
			1. Product Data: Manufacturer’s descriptive data and product attributes for polishing products.
			2. Samples: 6-inch x 6-inch [Selection samples.] [Verification samples.]
	2. ADMINISTRATIVE REQUIREMENTS
		1. Mockup: [25] [\_\_] square feet. Approved mockup [may] [may not] remain as part of the Work.
	3. QUALITY ASSURANCE
		1. Installer Qualifications:
			1. Firm specializing in work of this Section, with minimum 10 years’ experience.
			2. 10 projects of similar size and complexity.
			3. Manufacturer employed personal.
		2. Manufacturer Qualifications:
			1. Warrant installation workmanship and defects for a period of 20-years.
			2. Repair and replacement topping damaged by excessive substrate moisture

 emission, relative humidity and alkalinity-pH for a period of 10-years.

* + 1. Regulatory Requirements:
			1. Flooring Coefficient of Friction: Minimum [0.43,] 0.60,] tested to ANSI/NFSI B101.3 after polishing.
	1. WARRANTY

 A. Manufacturers 20-year warranty for installation defects and material performance.

 B. Manufacturer to guarantee the installation.

 C. Repair or replace topping damaged by excessive substrate moisture emission, relative humidity and alkalinity- pH for a period of 10 years.

1. **PRODUCTS**
	1. MANUFACTURERS
		1. Contract documents are based on Floor Seal Technology, Inc. [www.floorseal.com](http://www.floorseal.com)
		2. Substitutions: [Refer to Division 01.] [Not permitted.]
	2. MATERIALS
		1. Concrete Topping:
			1. Product: TekFlor.
			2. Description: Self-leveling cementitious wear surface.
			3. Compressive strength: Maximum 6000 PSI at 28 days, tested to modified ASTM C109/C109M.
			4. Flexural Strength: 800 PSI at 28 days, tested to ASTM C348.

Consult with manufacturer to obtain aggregate samples.

* + 1. Concrete Aggregates: Color and size to be selected by Architect.

Retain the following when topping is to be colored.

* + 1. Color Mixture: [\_\_\_\_.] [To be selected from manufacturer’s full color range.]
		2. Densifier: Odorless penetrating, non-film forming, colloidal silica solution, reactive with free lime and calcium hydroxide; designed to chemically harden and densify concrete surface. Meeting CDPH 01350 low emitting requirements.
		3. Sealer: Film forming, stain resistant, food resistant, water repellent, impregnating type. Meeting CDPH 01350 low emitting requirements.

Retain the following when a stencil pattern is to be applied. Consult manufacturer on pattern options.

* + 1. Stencil: Self-adhering, solid vinyl pattern [as approved by Architect.] [to be selected from manufacturers catalog.] ]
	1. ACCESSORIES
		1. Surface Repair Products: Manufacturers color matching patch fill designed to fill in surface damage to produce uniform, high-gloss, seamless visual appearance.
			1. Product: ColorMatchPatch
		2. Moisture Control/ primer/ crack suppression membrane: Manufacturers’ moisture tolerant primer resistant to the following:

1. Product: MES 200

2. Relative humidity: 100-percent when concrete is tested to ASTM F2170.

3. Moisture emission: up to 25 lbs. when concrete is tested to ASTM F1869.

4. Alkalinity-pH tolerance: Resistant to substrates with 14pH.

1. **EXECUTION**
	1. PREPARATION
		1. Test floors in accordance with manufacturer’s instructions.
	2. TOPPING

A. Apply manufacturers primer/ crack suppression membrane and topping following manufacturers’ instructions.

* 1. DYEING

* + 1. Apply dye in accordance with manufacturer’s instructions.
	1. STENCIL
		1. Apply stencil in accordance with manufacturer’s instructions.
	2. POLISHING
		1. Apply up to three coats of undiluted densifier solution to point of rejection, remove excess liquid, and allow to cure according to manufacturer’s instructions.
		2. Apply color matching patch as required to form continuous monolithic surface.
		3. Final Polished Concrete Floor Finish: As approved by mockup.
		4. Final Concrete Floor Gloss: As approved by mockup.
		5. Final Surface: Abrasion and scratch resistant, uniform in appearance.
	3. SEALING
		1. Apply up to two coats of sealer as recommended by manufacturer, following recommend coverage rates for intended use.
		2. Burnish to uniform sheen matching approved mockup.
	4. FIELD QUALITY CONTROL
		1. Measure slip resistance using BOT-3000 slip-tester; ensure compliance with specified slip resistance rating.
		2. Final surface to be free of scratches, abrasions and uniform in gloss.

END OF SECTION