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 05/28/2022

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

This guide specification section has been prepared by Solomon Colors for use in the preparation of a project specification section covering polished concrete floor finishes, with or without dye.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are contained in blue, e.g.:

www.astm.com

Optional text requiring a selection by the user is enclosed within brackets and as red text, e.g.: Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and as red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

 \*\*\*\* OR \*\*\*\*

For assistance in the use of products in this section, contact Solomon Colors by calling 800-624-0261 or visit their website at [www.solomoncolors.com](http://www.solomoncolors.com).

**SECTION 03 35 43 - POLISHED CONCRETE FINISH**

1. **GENERAL**
	1. ADMINISTRATIVE REQUIREMENTS
		1. Pre-Installation Conference:
			1. Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] installer, and related trades.
			2. Review:
				1. Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.
				2. Concrete mix designs.
				3. Floor flatness (Ff and Fl) requirements.
				4. Curing requirements.
	2. SUBMITTALS

* + 1. Action Submittals:
			1. Product Data: Manufacturer’s descriptive data and product attributes for each product.
			2. Samples: [Selection samples.] [Verification samples.]
		2. Informational Submittals: Post-installation testing results to ASTM D5767 and ASTM D523.
		3. Close Out Submittals: Maintenance data.
	1. QUALITY ASSURANCE

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* + 1. Installer Qualifications:
			1. Minimum [2] [\_\_] years’ experience in work of this Section.
			2. Approved by manufacturer.
		2. Manufacturer: Minimum [10] [\_\_] years’ experience in producing specified materials.
		3. Materials: Compliant with third party CDPH low-emitting material testing.
1. **PRODUCTS**
	1. MANUFACTURERS
		1. Contract Documents are based on products by Solomon Colors. [www.lythic.com](http://www.lythic.com)
		2. Substitutions: [Refer to Division 01.] [Not permitted.]
	2. MATERIALS
		1. Hardener:
			1. Type: Liquid applied finishing aid for newly poured concrete to reduce shrinkage cracks, hydration, and surface impact strength.
			2. Source: Day1.
		2. Cleaner:
			1. Type: Cleaner: Water-based, colloidal silica blended surfactant, silica dust reducer.
			2. Source: Lythic Cleaner.

Retain the following for a dyed finish.

* + 1. Dye:
			1. Type: Translucent, liquid color dye.
			2. Source: Pro-Dye.
			3. Color: [\_\_\_\_.] [To be selected from manufacturer’s full color range.]

* + 1. Hardener and Densifier:
			1. Type: Water based, colloidal silica, odorless, penetrating hardener.
			2. Source: Densifier and XL.
		2. Protector:
			1. Type: Water-based, penetrating film forming protector, colloidal-silica co-polymer acrylic.
			2. Source: Protector.
	1. ACCESSORIES
		1. Crack and Joint Treatment: Polyurea-based joint filler.
		2. Spall, Surface Defect and Resin Grout Material: Epoxy or polyurea-based material.
		3. Cementititous Grout: Unsanded, fast curing, hydraulic cement-based floor material.
		4. Temporary Protection: Stain and water-resistant sheeting.
1. **EXECUTION**
	1. PREPARATION
		1. Test floors in accordance with manufacturer’s instructions.

Retain the following for a dyed finish.

* 1. DYEING
		1. Apply dye in accordance with manufacturer’s instructions.
	2. POLISHING
		1. Fill surface imperfections using surface repair products such that imperfections are not noticeable when viewed from 10 feet away under lighting conditions that will be present after construction.
		2. Apply undiluted solution to point of rejection, remove excess liquid, and allow to cure according to manufacturer’s instructions.
		3. Apply grout as required to form continuous monolithic surface.
		4. Final Polished Concrete Floor Finish: Class [A – Cement Fines; 85 to 95 percent cement fines, 5 to 15 percent fine aggregate.] [B - Fine Aggregate; 85 to 95 percent fine aggregate, 5 to 15 percent blend of cement fines and coarse aggregate.] [C - Coarse Aggregate; 80 to coarse aggregate; cement fines, 10 to 20 percent blend of cement fines and fine aggregate.]
		5. Final Concrete Floor Gloss:
			1. Level [1 – Flat, image clarity value 0 to 9 percent, haze index less than 10] [2 – Satin; image clarity value 10 to 39 percent, haze index less than 10.] [3 – Polished; image clarity value 40 to 69 percent, haze index less than 10.] [4 – Highly Polished; image clarity value 70 to 100 percent, haze index less than 10.]
			2. Test image clarity value to ASTM D5767 and haze to ASTM D4039 prior to application of sealer, at rate of three tests per 1000 square feet of polished concrete.
		6. Final Surface: Abrasion and scratch resistant, uniform in appearance.
	3. SEALING
		1. Apply sealer to manufacturer’s recommend coverage.
		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.

END OF SECTION