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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 or deselect HIDDEN TEXT.

This guide specification section has been prepared by Epmar Corporation for use in the preparation of a project specification section covering epoxy, polyaspartic, and polyurethane flooring systems.

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.epmar.com](http://www.epmar.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 Epmar Corporation by calling 562-946-8781 or visit their website at [www.epmar.com](http://www.epmar.com).

This specification has been prepared based on *SimpleSpecs*™ specification templates. The *SimpleSpecs*™ Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on *SimpleSpecs*™ products visit the ZeroDocs.com website at [www.zerodocs.com](http://www.zerodocs.com).

**SECTION 09 67 23 – RESINOUS FLOORING**

 GENERAL

 ADMINISTRATIVE REQUIREMENTS

Retain the following for a pre-installation conference held prior to start of product installation.

 Pre-Installation Conference:

 Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder,] installer, and related trades.

 Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

 SUBMITTALS

 Action Submittals:

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

 Closeout Submittals:

 Maintenance Data.

 QUALITY ASSURANCE

Retain the following to specify minimum experience of applicator.

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

Retain the following for a full-scale mockup at the project site.

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

 Regulatory Requirements:

 Flooring Coefficient of Friction: Minimum [0.43,] [\_\_,] tested to ANSI A326.3 after finishing.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by Epmar Corporation, [www.epmar.com](http://www.epmar.com).

Edit the following to indicate whether substitutions will be allowed for the products in this section.

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

 MATERIALS

Resinous flooring is specified under a systems approach as specified in the Schedule at the end of this Section. Edit the following paragraphs to include only those products listed in the applicable Flooring Systems included in the Schedule.

 Epoxy Coating A:

 Source: Kemiko 100 Percent Solids Self-Leveling Epoxy Clear SS1202.

 Description: Two-component, 100 percent solids, water clear, self-leveling, abrasion resistant epoxy coating.

 Hardness: Minimum Shore D 80, tested to ASTM D2240.

 Adhesion: Minimum 350 PSI, tested to ASTM D4541.

 Abrasion resistance: 69.8 mg loss, CS-17 wheel, 1000 g, 1000 cycles, tested to ASTM D4060.

 Finish: High gloss.

 Color: Clear.

 Epoxy Coating B:

 Source: Kemiko 100 Percent Solids UV Resistant Self-Leveling Epoxy Clear SS1202UVR.

 Description: Two-component, 100 percent solids, water clear, self-leveling epoxy coating.

 Hardness: Minimum Shore D 80, tested to ASTM D2240.

 Adhesion: Minimum 350 PSI, tested to ASTM D4541.

 Abrasion resistance: 69.8 mg loss, CS-17 wheel, 1000 g, 1000 cycles, tested to ASTM D4060.

 Finish: High gloss.

 Color: Clear.

 Epoxy Coating C:

 Source: Kemiko Two Component Water Extended Epoxy SS1600.

 Description: Two-component, water-based epoxy coating.

 Hardness: 3H, tested to ASTM D3363.

 Adhesion: Minimum 350, tested to ASTM D4541.

 Finish: High gloss.

 Color: [Clear.] [\_\_\_\_.] [To be selected from manufacturer’s full color range.]

 Epoxy Coating D:

 Source: Kemiko Water Base Low VOC Epoxy SS3400.

 Description: Two-component, water-based, low VOC, low odor epoxy coating.

 Hardness: 3H, tested to ASTM D3363.

 Adhesion: Minimum 450 PSI, tested to ASTM D4541.

 Abrasion resistance: 45 mg loss, tested to ASTM D4060.

 Finish: High gloss.

 Color: [Clear.] [\_\_\_\_.] [To be selected from manufacturer’s full color range.]

 Epoxy Coating E:

 Source: Kemiko 100 Percent Solids High-Gloss Self-Leveling Epoxy SS3500.

 Description: Two-component, abrasion resistant, 100 percent solids, self-leveling epoxy coating.

 Hardness: Minimum Shore D 80, tested to ASTM D2240.

 Adhesion: Minimum 350 PSI, tested to ASTM D4541.

 Abrasion resistance: 69.8 mg loss, CS-17 wheel, 1000 g, 1000 cycles, tested to ASTM D4060.

 Finish: High gloss.

Retain one of the following topcoats for a UV, chemical, and wear resistant finish.

 Polyurethane Coating A:

 Source: Kemiko Water Base Polyurethane Topcoat SS2400.

 Description: Two-component, water based polyurethane coating.

 Hardness: 3H, tested to ASTM D3363.

 Adhesion: Minimum 350 PSI when applied over SS3700 and SS1202, tested to ASTM D4541.

 Abrasion resistance: 24.1 mg loss, CS-17 wheel, 1000 g, 1000 cycles, tested to ASTM D4060.

 Finish: [High gloss.] [Flat.]

 Polyaspartic Coating A:

 Source: Kemiko High Solids Polyaspartic SS3900.

 Description: Two-component, high solids polyaspartic coating.

 Hardness: 3H, tested to ASTM D3363.

 Adhesion: Minimum 350 PSI, tested to ASTM D4541.

 Abrasion resistance: 30.0 mg loss, CS-17 wheel, 1000 g, 1000 cycles, tested to ASTM D4060.

 Finish: [High gloss.] [Matte.]

 Mixes: In accordance with manufacturer’s instructions.

 ACCESSORIES

* + 1. Primers: As recommended by coating manufacturer for surface being coated.

Retain the following for a two-component, polyamide amine cured, concrete waterproofing epoxy. This waterproofing epoxy seals concrete floors prior to application of a resinous flooring system.

 Moisture Barrier:

 Source: Kemiko High Solids Moisture Vapor Barrier Epoxy SS1120.

 Description: Two-component, polyamide amine cured, concrete waterproofing epoxy coating.

 Hardness: Shore D 78, tested to ASTM D2240.

 Moisture vapor transmission: 0.230 perms, tested to ASTM E96/E96M.

 Adhesion: 340 PSI, tested to ASTM C297.

 Tensile strength: 2985 PSI, tested to ASTM D412.

 Elongation: 21.46 percent, tested to ASTM D412.

 Finish: Medium gloss.

 [Flakes:] [Aggregate:] [Quartz] [\_\_\_\_] type, [\_\_\_\_] color.

 EXECUTION

 PREPARATION

 Clean and prepare surfaces in accordance with manufacturer's instructions.

 Apply moisture barrier when required by resinous flooring system manufacturer.

 APPLICATION

 Apply primer when recommended by flooring manufacturer; follow manufacturer’s instructions.

 Apply flooring system in accordance with manufacturer's instructions.

 Finish flooring system to uniform surface free from seams and defects.

 FIELD QUALITY CONTROL

 Measure slip resistance using BOT-3000 slip-tester; ensure compliance with specified slip resistance rating.

 FLOORING SYSTEM SCHEDULE

Edit the following to include required resinous flooring systems.

 Flooring System RF-1:

* + - 1. Body coat: Epoxy Coating C.
			2. Top coat: Epoxy Coating C.

 RF-2:

* + - 1. Body coat: Epoxy Coating A.
			2. [Flakes] [Aggregates] in body coat at rate of [0.5] [1.0] [\_\_] pounds per square foot.
			3. Top coat: Epoxy coating D.

 Flooring System RF-3:

* + - 1. Body coat: Epoxy Coating A.
			2. [Flakes] [Aggregates] in body coat at rate of [0.5] [1.0] [\_\_] pounds per square foot.
			3. Top coat: Polyaspartic Coating A.

END OF SECTION