SECTION 096723

RESINOUS FLOORING

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 2 Specification with primarily editable text; therefore, most of the text can be edited, but there is some required text which is noted within the Section with a “Note to Specifier.” Do not revise these paragraphs without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

The product in this section is to be used as a floor finish and to create an integral cove base in toilet rooms and should be used in conjunction with the epoxy wall coating specified in Section 099656. Coordinate with drawings on the appropriate substrate material and finish as required by the manufacturer.

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1. GENERAL
	1. SUMMARY
		1. Section Includes: Slip-resistant epoxy coating for use on floors with integral cove base.
	2. RELATED SECTIONS
		1. Section 016000 - Product Requirements: Product options and substitutions.
		2. Section 099656 – Epoxy Coatings: Wall coating.
	3. REFERENCES
		1. ASTM C579 Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes
		2. ASTM C580 Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes
		3. ASTM D2240 Standard Test Method for Rubber Property—Durometer Hardness
		4. ASTM D2369 Standard Test Method for Volatile Content of Coatings
		5. ASTM D4060 Test Method for Abrasion Resistance of Organic Coatings
		6. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
	4. SUBMITTALS
		1. Product Data: Indicate product components, compliance with physical characteristics, application method, required substrate moisture content, required storage conditions, and permitted disposal method for unused product.
		2. Product Safety Data Sheets.
		3. Applicator Qualifications: Evidence of certification by manufacturer and years of experience.
		4. Samples: Product applied to each type of substrate, 12 by 12-inch square with two 6-inch high vertical surfaces to illustrate 4-inch cove base and corner condition.
	5. QUALITY ASSURANCE
		1. Applicator: Certified by manufacturer with minimum 5 years of experience installing manufacturer’s product.
		2. Wall Coating Compatibility: In rooms scheduled for Epoxy Coatings, the epoxy wall coating and resinous floor and cove products to be compatible products by the same manufacturer.
	6. DELIVERY, STORAGE AND HANDLING
		1. In accordance with manufacturer instructions for components.
	7. SITE CONDITIONS
		1. Substrate: Conditions of substrate materials and surfaces, including moisture content, to meet manufacturer’s requirements.
		2. Environment: Ambient temperature and humidity to be maintained in accordance with manufacturer’s requirements.
2. PRODUCTS
	1. MANUFACTURERS

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**NOTE TO SPECIFIER**

\*\*Required: Do not revise basis of design manufacturer or product without an approved deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.

The “grittiness” of the floor can be adjusted by revising the aggregate size; adjust as per project conditions warrant; no deviation is required.

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* + 1. Basis of Design: Stonclad GS with Stonkote GS4 topcoat, Stonhard Inc., Maple Shade, NJ
		(800) 257-7953.
			1. Color: Pewter
			2. Cove Base: Integral, seamless, 4 inches high.
			3. Aggregate: Silica sand or glass bead texture, 90 mesh aggregate size.

* + 1. Characteristics:
			1. ASTM C579: .10,000 psi after 7 days.
			2. ASTM C580: 4,000 psi
			3. ASTM D2240: Shore D, 85 to 90
			4. ASTM D2369: 4 g/l.
			5. ASTM D4060: 0.1 gm.
			6. ASTM E648: Flammability Class 1.

1. EXECUTION
	1. PREPARATION

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**NOTE TO SPECIFIER**

When applying this product on existing substrates, provide a detailed scope of work to indicate the required surface preparation in accordance with the manufacturer’s requirements, either in this paragraph or on the drawings.

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* + 1. Prepare substrate in accordance with manufacturer’s requirements.
		2. Verify substrate moisture content meets manufacturer’s requirements and take corrective action as necessary.
	1. APPLICATION
		1. Apply coating system in accordance with manufacturer instructions for material and substrate involved.
		2. Provide ventilation during application as required by manufacturer.
		3. Apply each component in compliance with manufacturer's directions to produce a uniform monolithic coating, uninterrupted except at divider strips or at joints indicated or required.
		4. Primer: Mix and apply material according to manufacturer's procedures.
		5. Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and details including those for taping, mixing, priming, troweling, sanding, of cove base. Round internal and external corners.
		6. Epoxy Base Coat: Mix and apply material according to manufacturer's procedures. Apply base coat to primed wall surface.
		7. Top Coat: Mix and apply material according to manufacturer's procedures.
		8. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations. Apply joint sealant to comply with manufacturer's written recommendations.
	2. FIELD QUALITY CONTROL
		1. Prevent material from pooling or puddling at the cove base.
	3. PROTECTION AND CLEANING
		1. Cure materials in compliance with manufacturer's directions.
		2. Close area of application for a minimum of 24 hours.
		3. Prevent contamination during stages of application and prior to completion of curing process.
		4. Protect from damage and wear during construction.
		5. After curing, clean surfaces just prior to final inspection using cleaning materials and procedures recommended by manufacturer.
		6. Dispose of unused materials in accordance with manufacturer’s directions and local regulations.

END OF SECTION

USPS MPF Specification Last Revised: 10/1/2022