

SYSTEM DESCRIPTION

CastorCrete SL is a medium duty flowable easy screed cementitious polyurethane mortar that is designed to protect and/or resurface concrete. It can withstand aggressive physical exposure to abrasion and impact, moderate thermal shock and thermal cycling, chemical resistance and medium traffic forklift traffic. withstanding constant temperature exposure up to 212°F (100°C). Typical installation thicknesses between 1/8 inch (3.18 mm) to 1/4 inch (6.35 mm).

USES

- Commercial kitchens
- Food and beverage processing and manufacturing
- Pharmaceutical
- Healthcare and research facilities
- Vivarium and animal holding
- Other wet and dry processing areas

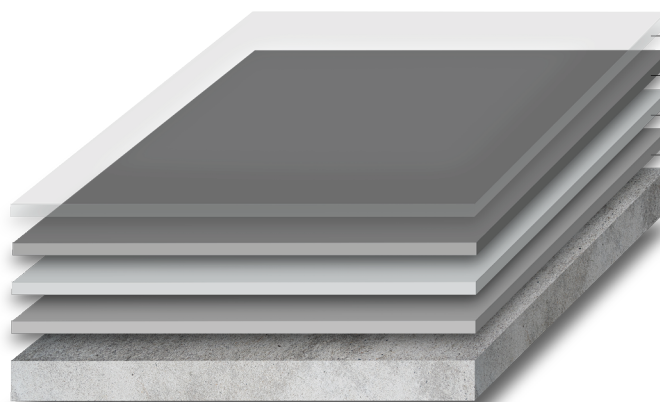
ADVANTAGES

- Industrial Matte Finish
- Low VOC Cementitious Polyurethane Slurry Mortar
- Low Order During Placement and Cure
- Fast Installation
- Moisture Tolerant
- Thermal Shock Resistant
- Impact and Abrasion Resistant. Chemical Resistant to Organic and Inorganic Acids, Salts, Alkalis and Amines
- Superior Life Cycle Advantages

COLORS

5 standard colors and natural.

TYPICAL SYSTEM BUILD



- TopCoat: CastorCrete TC, Epoxy 600 or Polyurea 5100
- Mortar Coat: CastorCrete SL
- Primer: Epoxy 100 as needed
- Patching & Filling: Epoxy 300 Flex Paste

Note: Diagram not to scale

TECHNICAL DATA

Compressive Strength (ASTM C-579)	8,500 psi
Tensile Strength (ASTM C-307)	1,400 psi
Flexural Strength (ASTM C-580)	2,700 psi
Hardness, Shore D (ASTM D-2240)	85-90
Impact Resistance (ASTM D-2794)	160
Concrete Thermal Compatibility (ASTM C-884)	Passes
Coefficient of Thermal Expansion (ASTM C-531)	1.1X10 ⁻⁵
Flammability (ASTM D-635)	Self Extinguishing
Abrasion Resistance (ASTM C-501) (CS-17, 1,000 gr., 1,000 cycles)	0.32gm loss
Coefficient of Friction Wet Surface (ANSI/NFSI B101.1 Static & B101.3 Dynamic)	Incline >0.45 Level >0.42
Water Absorption (ASTM C-413)	<0.10
Bond Strength (ASTM D-7234) (concrete failure)	400 psi
Relative Humidity Test (ASTM F-2170)	85%

Refer to product data sheet of individual system component for more information.

TYPICAL SYSTEM BUILD

COAT	PRODUCT	THICKNESS/COVERAGE
Patching & Filling	APF Epoxy 300 Flex Paste	As required
Primer	APF Epoxy 100 (as needed)	200 sq. ft./gallon (8 mils WFT)
Mortar Coat	APF CastorCrete SL	1/8" - 32 sq. ft., 1/4" - 16 sq. ft.
Topcoat Option 1	APF CastorCrete TC	140-280 sq. ft./gallon (10-20 mils)*
Topcoat Option 2	APF Epoxy 600	100 sq. ft./gallon (16 mils WFT)*
Topcoat Option 3	APF Polyurea 5100	200 sq. ft./gallon (8 mils WFT)*

*Topcoat coverage determines final texture.

APPLICATION INSTRUCTIONS

1.0 Concrete Moisture

It is the applicator's responsibility to test and record concrete moisture levels according to ASTM F2170-19. Contact APF Technical Service if the relative humidity exceeds 99%.

2.0 Surface Preparation

Concrete must be cured for at least 7-10 days be clean, structurally sound, and free of wax, loose coatings or curing compounds. Concrete should be properly prepared to achieve a surface Minimum Texture of ICRI/CSP 3. Refer to ICRI technical guidelines 310-330 Selecting and specifying concrete surface preparation for sealer, coatings, polymer overlays, and concrete repair. Vacuum the prepared concrete surface to remove all dust. Acid etching is not recommended and will void manufacturers' warranty.

3.0 Crack Repair

Use Epoxy 300 Flex Paste immediately after mixing. Spread the product with a flat trowel, margin tool, or broad putty/plaster knife. Gunning is not recommended for this material.

Apply to fill the joint completely. Add additional material if the product settles into the joint below the concrete surface. The cured product must be level with the concrete surface. Allow to cure before the final coat.

4.0 Application of Primer Coat

Under normal circumstances, CastorCrete SL is applied directly to the concrete without a primer. However, if the concrete is badly damaged or excessively porous, the use of APF Epoxy 100 as a primer can reduce outgassing, pinholes or blisters.

A test area is recommended to determine if a primer should be used. After any patchwork/crack repair has cured, if primer is required,

apply one coat of Epoxy 100 after mixing according to the product data sheet. Apply material onto surface immediately after mixing with a squeegee, back roll using a quality solvent resistant 3/8-inch nap roller cover.

Apply at a rate of 200 sqft/gallon at 8 mils WFT. A "wet edge" is recommended when applying product, do not attempt to roll over material that has begun to set. An applicator wearing spiked shoes will back roll the wet material using a quality solvent resistant 3/8-inch nap roller cover to distribute the material uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting {using North-South, East-West Method.}**

5.0 Application of Cove Base

Reference CastorCrete CM system data sheet for specific application instructions.

6.0 Application of CastorCrete SL

Do not apply to previously coated surfaces; apply directly to concrete except for when priming is necessary. Cut Key-ways according to product data sheet. Reference CastorCrete SL data sheet for proper mixing instructions. For small areas, CastorCrete SL can be metered out and finished with a steel trowel. Once the mortar is raked with a cam-gauge rake to the desired thickness, use a finishing trowel to compact and smooth out the rake marks. As soon as the mortar is relatively closed, immediately roll the surface with a looped roller or spike roller to remove trowel marks and bring the resin to the top. When placing the cementitious polyurethane mortar it is very important to keep a wet edge between mixes, therefore each batch must be placed within working time of the prior one.

APPLICATION INSTRUCTIONS

6.0 Application of CastorCrete SL (Cont.)

Failure to do this could result in a visible tie-in line. Excessive toweling or rolling can bring more resin to the top and reduce slip resistance.

7.0 Top Coat Application Options (apply one of the following)

After mixing the CastorCrete TC according to the product data sheet, apply CastorCrete TC onto surface immediately after mixing with a squeegee, back roll with using a quality solvent resistant 3/8-inch nap roller cover at a rate of 140-280 sqft/gallon (10-20 mils).. When placing the cementitious polyurethane top coat, keep a "wet edge" between mixes. Place each batch within the working time of the prior batch. Failure to do this could result in a visible tie-in line.

Epoxy 600: As soon as the mortar can be walked on, apply Epoxy 600 clear after mixing per the product data sheet at a rate of 100 sqft/gallon (16 mils WFT).

Polyurea 5100: As soon as the mortar can be walked on, apply Polyurea 5100 clear after mixing per the product data sheet at a rate of 200 sqft/gallon (8 mils WFT).

LIMITATIONS

- Prior to application, measure and confirm that ambient temperature and substrate temperature conditions are at least 5°F over dew point.
- High humidity/low temperature will prolong cure time.
- Use of kerosene or propane forced air heating equipment during application may cause discoloration and finish defects.

HANDLING & SAFETY

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. User must read and understand Safety Data Sheet before using. APF Safety Data Sheets are available at www.apfepoxy.com.

APF_CastorCrete_SL_System_Data_11.10.25

STANDARD WARRANTY STATEMENT

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