



## CastorCrete® SL

### 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 200°F (93°C). Typical installation thicknesses between 1/8 inch (3.18 mm) to 1/4 inch (6.35 mm).

### System Uses

CastorCrete SL is an industrial matte finish medium duty flooring system that is designed for commercial kitchens, food and beverage processing, pharmaceutical, healthcare and research facilities, vivarium and animal holding and other wet and dry processing areas.

### Features and Benefits

- Industrial Matte Finish
- Zero 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
- Qualifies for LEED projects

### Colors

CastorCrete SL and CastorCrete TC are available in 8 standard colors.

### Concrete Moisture

ASTM F1869 Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride, maximum 10 pounds (4.54 kg) per 1,000 sq. ft. (92.9 sq. meters) per 24 hours and ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes, maximum Relative Humidity of 85%.

### Surface Preparation

Concrete must be sound, clean, dry and profiled. Refer to the CastorCrete SL application instructions for more detailed surface preparation instructions.

### Cure Rate @ 70°F (21°C)

CastorCrete SL Regular Cure, Foot Traffic 12 Hours  
CastorCrete SL Fast Cure, Foot Traffic 6 Hours

### Products

CastorCrete SL

CastorCrete TC

### Physical Properties

<b>Compressive Strength</b> (ASTM C579)	8,500 psi
<b>Tensile Strength</b> (ASTM C307)	1,400 psi
<b>Flexural Strength</b> (ASTM C580)	2,700 psi
<b>Hardness, Shore D</b> (ASTM D2240)	85-90
<b>Impact Resistance</b> (ASTM D2794)	160
<b>Concrete Thermal Compatibility</b> (ASTM C884)	Passes
<b>Coefficient of Thermal Expansion</b> (ASTM C531)	1.1 X 10 <sup>-5</sup>
<b>Flammability</b> (ASTM D635)	Self Extinguishing
<b>Abrasion Resistance</b> (ASTM C501) (CS-17, 1,000 gr., 1,000 cycles)	0.32gm loss
<b>Coefficient of Friction Wet Surface</b> (ANSI/NFSI B101.1 Static & B101.3 Dynamic)	Incline >0.45 Level >0.42
<b>Water Absorption</b> (ASTM C413):	<0.10
<b>Bond Strength</b> (ASTM D7234): (concrete failure)	400 psi
<b>Calcium Chloride Test</b> (ASTM F1869)	10 lbs.
<b>Relative Humidity Test</b> (ASTM F2170)	85%
<b>Microbial Resistance</b> (ASTM G21)	Passes #1

### Chemical Resistance

Refer to Arizona Polymer Flooring Chemical resistance guide for full system chemical resistance.

### Installation

Please refer to CastorCrete SL and CastorCrete TC installation guidelines for information and instructions.



### **Slip and Fall Precautions**

APF recommends coatings or surfacing systems meet ANSI (American National Standard Institute) and NFSI (National Floor Safety Institute) B101.3 Test Method for Measuring Wet DCOF (dynamic coefficient of friction) of Common Hard-Surface Floor Materials, a. incline surfaces >0.45; b. level surfaces >0.42. APF recommends the use of angular slip-resistant aggregate in all coatings or surfacing systems that may be exposed to wet, oily or greasy conditions. It is the contractor's and end user's responsibility to provide a coating or surfacing system that meets current safety standards. APF or its sales agents will not be responsible for injury incurred in a slip and fall accident.