



## APPLICATION INSTRUCTIONS: CastorCrete® CM

### Moisture Vapor Emissions/Alkalinity Precautions

All interior concrete floors not poured over an effective moisture vapor retarder meeting ASTM E 1745 Standard Specification for Plastic Water Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs and ACI 302.2R Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials are subject to possible excessive moisture vapor transmission (above 10 lbs.) and excessive relative humidity (above 85%) that may lead to blistering and failure of the coating system. It is the polyurethane cement mortar applicator's responsibility to conduct either or both ASTM F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride or ASTM F 2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes to determine if excessive levels of moisture are present before applying any cementitious polyurethane mortars. Arizona Polymer Flooring and its sales agents will not be responsible for cementitious polyurethane mortar failures due to undetected excessive moisture vapor emissions or excessive relative humidity. Consult APF for information on moisture remediation products.

### Surface Preparation

CastorCrete, concrete and other surfaces must be clean, dry, and structurally sound.

1. Mechanically abrade horizontal and vertical concrete substrate via diamond grind with a coarse #12 to #16 disk and meet the International Concrete Repair Institute ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers Coatings and Polymer Overlays CSP 3.
2. When placing CastorCrete CM on top of CastorCrete TG, CastorCrete SL or CastorCrete RT place the cove material within recoat window. If the recoat window has expired the surface will have to be light diamond ground to insure adhesion.
3. If priming of the concrete substrates is required use APF Epoxy 100 applied at the rate of 200 to 250 square feet (18.6 to 23.2 square meters) per gallon (3.79 liters). Proceed with the placement of CastorCrete CM when primed surface has become tack-free.
4. **Never feather edge CastorCrete CM.**
5. Vertical surfaces will require priming. Use APF Epoxy 100 applied at the rate of 200 to 250 square feet (18.6 to 23.2 square meters) per gallon (3.79 liters). Proceed with CastorCrete CM when primed surface has become tack-free.

### Mixing Instructions

Pour entire contents of parts A, B and C into mixing container and mix for 30 seconds, while mixing slowly add part D (aggregate) over a period of about 15 seconds. Once all of the components are incorporated, mix for an additional 30 seconds. Mixing should be done with a twin mixer (Collomix CX 44 Duo Set with MKD 140 HF) or a Kol type mixer or any other mixer designed to mix heavy mortars. Mixed material should be placed immediately. It is recommended that multiple mixing containers be used to insure an adequate supply of fresh material.



## APPLICATION RECOMMENDATIONS

Under normal circumstances, CastorCrete CM 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.

CastorCrete CM can be rough troweled onto substrate, compacted and finished with a steel cove trowel. When placing the cementitious polyurethane cove mortar it is very important to maintain a wet edge between mixes, therefore each batch must be placed within working time of the prior one. Failure to do this could result in a visible tie-in line. Excessive troweling can bring more resin to the top.

### Coverage per kit of CastorCrete CM only is as follows:

#### Six Inch Cove Base Thickness

1/8 inch (3.18 mm)  
1/4 inch (6.35 mm)

#### Coverage Per 30 lbs. (13.6 kg) Kit

30 linear feet (9.1 linear meters)  
15 square feet (4.6 linear meters)