



APPLICATION INSTRUCTIONS: CastorCrete® TC

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 TC is designed to be placed over CastorCrete TG, CastorCrete SL, CastorCrete RT and CastorCrete CM

1. CastorCrete products that are to receive CastorCrete TC must be clean and free of any bond breaking materials.
2. Trowel marks, if they exist, mechanically diamond ground and removed. The debris must be cleanup before top coating with CastorCrete TC.
3. CastorCrete TC can be placed as soon the CastorCrete product can withstand foot traffic and up to 12 hours.
4. If the recoat window of 12 hours is missed the CastorCrete system must be diamond ground to open up the surface before placing CastorCrete TC.

Mixing Instructions

Pour entire contents of parts A, B and C into mixing container and mix for 60 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 60 seconds. Mixing should be done with a Jiffy Type Impeller Mixing Paddle. Make sure the mixing paddle scraps the bottom and sides of the mixing vessel to insure complete mix. It is recommended that multiple mixing containers be used to insure an adequate supply of fresh material.

APPLICATION RECOMMENDATIONS

CastorCrete TC is applied directly to CastorCrete products without a primer to hide trowel lines and create a uniform appearance of the CastorCrete products it is placed upon. As soon as the mortar can be walked on place CastorCrete TC. Place the CastorCrete TC immediately after mixing and spread with a squeegee and backroll with a 3/8 inch (9.5 mm) nap roller. It is very important to keep a wet edge between mixes, therefore each batch must be placed within working time of the prior one. Failure to due this could result in a visible tie-in line.

If top coat installation will exceed the "coating window" of 12 hours, a light grind to remove contaminates is required prior to installing CastorCrete TC.



Coverage per kit of CastorCrete TC only is as follows:

Floor Thickness (WFT)

10 mils (0.25 mm)
16 mils (0.41 mm)
20 mils (0.5 mm)

Coverage Per 1.75 gal. (6.6 lt.) Kit

280 square feet (26.0 square meters)
175 square feet (16.25 square meters)
140 square feet (13.0 square meters)