GripCrete TC
Polyurethane Concrete Topcoat

TECHNOLOGY DESCRIPTION
GripCrete TC flooring systems represent the next generation of polyurethane concrete technology. These Bio-Based flooring systems utilize domestically produced soybean oil and environmentally friendly packaging.

PRODUCT DESCRIPTION
GripCrete TC is a matte finish polyurethane concrete coating typically used as a topcoat over a GripCrete slurry system that has been broadcasted with aggregate. GripCrete TC can also be used as a fast curing floor primer under GripCrete systems as well as a vertical cove base primer. GripCrete TC can also be used as a standalone polyurethane concrete coating as both the primer and topcoat. GripCrete TC is formulated with a natural additive to be resistant to Fungi Growth per the industry standard ASTM G-21.

TYPICAL PROPERTIES AT 70°F
Compressive Strength (ASTM C-579) ........................................ 5,900 psi
Tensile Strength (ASTM C-307) ................................................ 1,250 psi
Flexural Strength (ASTM C-580) ................................................. 2,900 psi
Bond Strength (ASTM D-4541) .............................................. 100% Concrete Failure
Impact Strength, in/lbs (ASTM D-4226) .................................. > 160 in-lb
VOC ......................................................................................... 5 gm/l
Resistance to Fungi Growth (ASTM G-21) ............................... Passes, Rating of 1

The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.

INSTALLATION DATA
Application Temperature, ambient ........................................ 40–85°F
Application Temperature, material ........................................... 50–80°F

Shelf Life .................................................................................. 6 months
Pot Life, @ 77°F ......................................................................... 15 minutes
Traffic, @ 77°F .......................................................................... Light: 12 hours / Full: 24 hours
Fully Cured, @ 77°F ................................................................. 7 days

Refer to GripCrete Application Guide for additional installation information

IMPORTANT INFORMATION
1. GripCrete TC is not color stable unless UV resistant topcoat is used.
2. GripCrete TC flooring should not be installed on wet concrete.
3. Floors should be sloped to drain to prevent standing water or chemicals.
4. Spills should be removed as soon as possible to prevent a slipping hazard.
5. Confirm product performance in specific chemical environment prior to use.
6. Prepare substrate according to “Surface Preparation” portion of this document.
7. Follow detailed instructions in the “GripCrete Application Guide”
8. Always use protective clothing consistent with OSHA regulations during use.
9. Refer to Safety Data Sheet for detailed safety precautions.
10. For industrial/commercial use, installation by trained personnel only.

TECHNICAL DATA SHEET

BENEFITS
• Attractive Matte Finish
• Low Odor, VOC Compliant
• Fast installation, fast cure
• Abrasion Resistant
• Thermal Shock Resistant when used with GripCrete systems.
• Excellent Chemical Resistance
• Resistant to fungi growth per ASTM G-21

RECOMMENDED USES
• Topcoat over GripCrete broadcast systems
• Food and Beverage Processing Facilities
• Chemical Process Facilities
• Wet processing and Packaging Areas
• Commercial and Industrial Kitchens
• Freezers and Coolers

GENERIC DESCRIPTION
Polyurethane Concrete Coating

TYPICAL APPLICATION
Topcoat over GripCrete broadcast systems

AVAILABLE COLORS
Red, Dark Red, Gray, Dark Gray, Tan, Green, Blue, Light Blue, Safety Yellow

PACKAGING & COVERAGE
1/2 Gallon Part A, 1/2 Gallon Part B
1 TC Filler Bag
1 Powder Pigment

120 sq.ft/unit as topcoat over 20/40 broadcast
120 sq.ft/unit as primer over concrete
S U R F A C E  P R E P A R A T I O N

Concrete: Apply only to properly prepared clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should ideally be cured for a minimum of 14 days to reduce possible shrinkage cracking in the concrete. GripCrete can be installed after 7 days or when concrete reaches a minimum 3,500 psi compressive strength which will allow for proper surface preparation, however, early curing movement, shrinkage or cracking that may occur in the concrete will be reflected through the final GripCrete flooring.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers including broom finish surface.
- Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.
- Surface profile shall be CSP-3 or meeting ICR (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- Moisture vapor transmission should be 12 pounds or less per 1,000 square feet over a 24-hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907.
- All concrete surface irregularities, cracks, expansion joints, control joints and terminations should be properly addressed and prepared prior to application of the flooring. Moving joints and cracks will reflect through the final installed GripCrete flooring.

Refer to "GripCrete Application Guide" for more details.

I N S T A L L A T I O N  S T E P S

IMPORTANT – Follow the detailed application instructions in the “GripCrete Application Guide” and the safety instructions listed on the product Safety Data Sheets (SDS) copies available upon request. The following installation summary is for reference only and should not be relied upon as all inclusive. GripCrete systems should only be installed by trained persons experienced in polyurethane concrete flooring applications.

1. Clean all dust and debris from area to be coated.
2. Pour ½ Gallon Part A into a mixing pail.
3. Add 1 Powder Pigment to Part A and mix about 15 seconds using a ½” drill and jiffy-type mixing paddle.
4. Add ½ Gallon Part B and mix another 15 seconds.
5. Gradually add all contents of a GripCrete TC/UV Filler into the liquid mixture and blend thoroughly until all particles are wetted out, normally about two minutes. DO NOT BLEND AGGRESSIVELY OR INTRODUCE AIR.
6. Immediately after mixing, pour material on to floor in ribbons. Using a flat squeegee move material uniformly across floor. Roll and back-roll material using ¼” nap roller to a uniform appearance. Do not over work.

NOTE: The above instructions are for topcoat applications over GripCrete slurry or trowel floor systems. If the GripCrete TC is to be installed as a standalone coating, contact US Coatings technical service for additional application instructions.

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Rev 09/15