



TBS COMPONENT DATA SHEET

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EMBE® CRETE TG

DESCRIPTION

EMBE®CRETE TG is a heavy duty, urethane-modified cementitious topping applied at 3/16" to 3/8" thickness. EMBE®CRETE TG high impact resistance and excellent thermal shock and chemical resistance make it ideal for heavy manufacturing and food processing areas. In addition, as a moisture vapor tolerant system, EMBE®CRETE TG is a solution for many moisture problems.

EMBE®CRETE TG may be used both indoors and outdoors, and in areas where freeze/thaw or thermal shock is a factor. Its textured surface reduces slipping under most wet conditions. Excellent for rehabbing old floors, EMBE®CRETE TG provides a much stronger, longer lasting, and attractive surface. EMBE®CRETE TG is the key choice for wet areas, dairies, food processing areas, and heavy industrial areas.

EMBE®CRETE TG can be installed with an integral cove base for areas requiring seamless wall to floor coatings.

ADVANTAGES

- High Impact, Thermal Shock, and Wear Resistant
- Chemical Resistant
- Almost Completely Odorless
- Will Not Support Growth of Fungus or Bacteria

- Allows Moisture Vapor Transmission for on or below grade applications
- One-Step Application with Optional Sealer Available
- Low maintenance
- No VOC's

LIMITATIONS

- Should be applied when temperature is between 40° F and 85° F
- Site must be free from condensation or water contamination during application and cure
- Concrete Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- Substrate should be clean, dry, concrete.
- Movement of substrate cracks may transmit through system

TYPICAL USES

- Heavy traffic and production areas
- Manufacturing plants
- Loading areas
- Processing and preparation areas
- Wet areas
- Dairies
- Food processing areas
- Industrial kitchens
- Animal areas
- Waste water treatment facilities
- Chemical processing

Page 1 of 3

APPLICATION: SURFACE PREPARATION

Mechanical abrasion of the concrete surface is required to remove any, curing compounds, loose, or poorly bonded finishes and also create surface profile for resinous flooring to properly adhere to.

Oil, grease, or food fats can usually be burned off with a flame gun or removed with a commercial degreasing compound or solvent.

All unsound concrete should be repaired or replaced prior to resinous flooring applications. Resinous flooring materials should be applied to level concrete substrates. Grind or fill high and low spots prior to application.

Repair cracks prior to resinous flooring applications.

Refer to installation guide.

MIXING

- Mechanical mixing is required. A 10 gallon Kol mixer with paddle is recommended.
- Add part A and part B in running mixer and blend until they are uniform (about 30 seconds)
- Add aggregate slowly to mix and blend for 2 to 3 more minutes

INSTALLATION

EMBE®CRETE TG is installed using a 12"x 4" steel trowel. Pour mix and spread material side to side along floor. Considerable top pressure is needed for placement. Maintain a wet edge between mixes to insure seamless installation. Push back into previous mix and pull forward to establish thickness. With a lighter pressure, trowel from side to side to close up. The last few strokes should be in one direction. Be careful not to over trowel system. Excessive troweling will bring resin to surface and may negate the anti-slip surface.

MAINTENANCE

If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. EMBE®CRETE TG is easily cleaned with natural soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.

TECHNICAL DATA

Flexural Strength ASTM C-580	2,000 psi
Tensile Strength ASTM C-307	800 psi
Compressive Strength ASTM C-579, 7 days	7,500 psi
Modulus of Elasticity	1.7 x 10 ⁵ psi
Coefficient of Thermal ASTM C-531	1.1 x10 ⁻⁵ per ° F

TECHNICAL DATA CONTINUED

Flammability ASTM D-635	Non-burning
Fungus & Bacteria Growth MIL-F-5250 4.4.2.11	Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests.
Water Absorption ASTM D-570	0.10%
Bond strength to Concrete ACI COMM#403 Bulletin 59-43	300 psi (100% concrete failure)
Coefficient of Friction ASTM D-2047	0.80
Thermal Shock Resistance ASTM C-884	Passes
Abrasion Resistance ASTM C-501	Depends on finish
Impact Resistance MIL-D-3134F 4.7.3	16 ft/lbs-0.003 inches indentation
Expansion Vicant Softening Point	265-268° F
Thermal Conductivity	8 Btu-in/ft ² h°F
Electrical Resistance	3x10 ⁸ Ohms
Density	130 lbs/ft ³
Hardness ASTM D-2240	80-85 Shore D

CURING TIME

- Approximately 6 - 8 hours at 75 degrees F. for light foot traffic
- 12 hours for light vehicle traffic, 24 hours for complete chemical resistance

THEORETICAL COVERAGE

20 – 22 ft² per kit at ¼" thick

CLEAN-UP

- No thinners are required
- Clean equipment with soap and water

SAFETY PRECAUTIONS

Please refer to our MSDS sheet