



TBS SYSTEM DATA SHEET

Technical Barrier System Inc.

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EMBE®CRETE Systems

Urethane modified cementitious system

DESCRIPTION

EMBE®CRETE is a heavy duty, urethane modified topping. EMBR®CRETE's high impact resistance and excellent thermal shock and chemical resistance make it ideal for heavy manufacturing areas. In addition, as a breathing system, EMBE®CRETE is a solution for many moisture problems. Its textured surface reduces slipping under most wet conditions.

TYPICAL USES

- Both indoors and outdoors
- Where freeze/thaw is a factor
- Rehabbing old floors
- Wet areas
- Dairies
- Food processing areas
- Industrial kitchens

ADVANTAGES

- High impact, thermal shock, and wear resistant
- Chemical resistant
- Will not support growth of fungus or bacteria
- Breathing system
- One step application

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
- Material requires mechanical mixing
- Substrate should be clean, dry, concrete

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.

TECHNICAL DATA

Flexural Strength	2,000 psi
Tensile Strength	800 psi
Compressive Strength	7,500 psi
Modulus of Elasticity	1.7×10^5 psi
Coefficient of Thermal Expansion	1.1×10^{-5} per °F
Vicant Softening Point	265-268°F
Thermal Conductivity	8 Btu-in/ft ² h° F
Electrical Resistance	3×10^8 Ohms
Density	130 lbs/ft ³

CURING TIME

- Approximately 6 – 8 hours for light foot traffic
- Next day full service

CLEAN UP

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

SAFETY PRECAUTIONS

Please refer to our MSDS sheet