



TBS COMPONENT DATA SHEET

Technical Barrier System Inc.

TEL: 905.842.9488 FAX: 905.842.1582 TOLL FREE: 888.537.2888
EMAIL: INFO@TBSPRODUCTS.COM WEB: WWW.TBSPRODUCTS.COM

EMBE® CRETE SL

DESCRIPTION

EMBE® CRETE SL is a 3/16"-1/4' seamless, urethane modified, cementitious slurry system that produces a dense, non-porous floor that is chemical and dirt resistant. Ideal for medium to heavy duty traffic areas, EMBE® CRETE SL is a solution for many moisture problems.

EMBE® CRETE SL can be installed with an integral cove base for areas requiring seamless wall to floor coatings. Excellent for rehabbing old floors, the EMBE® CRETE SL system provides a strong, long lasting, and attractive surface that resists chemical corrosion, abrasion, and impact. EMBE® CRETE SL may be used both indoors and outdoors, and in areas where freeze/thaw is a factor.

ADVANTAGES

- Excellent chemical resistance
- Low maintenance
- One-step application
- Low odor application
- Thermal shock and wear resistant
- Will not support growth of fungus or bacteria
- Breathing system

LIMITATIONS

- On or below grade installation must have an efficient vapor barrier under the slab. Special treatments are necessary where hydrostatic pressure or moisture vapor transmission may be present

- 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
- All control joints and expansion joints in the substrate must be revealed with the appropriate divider strips in the topping. Movement of substrate cracks may transmit through system

TYPICAL USES

- Dry processing areas
- Distilleries
- Machine shops
- Manufacturing
- Warehouses
- Utilities
- Correctional facilities
- Animal areas
- Laundries
- Clean rooms
- Showers

**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 gal Kol mixer with paddle is recommended
- Add resin and hardener 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 SL is installed using a 12"x4" steel trowel or squeegee, and a spiked roller with a long handle. Pour mix and spread material side to side along floor. Maintain a wet edge between mixes to insure seamless installation. Push back into previous mix and pull forward to establish thickness. Lay small amount and measure thickness. Use this area as a guide.

MAINTENANCE

If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. EMBE®CRETE SL 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

Flammability ASTM D-635	Self extinguishing
Fungus & Bacteria Growth	Will not support growth of fungus or Bacteria when subjected to mildew and bacteria tests.
Hardness ASTM D-2240	80-84 Shore D
Bond strength to concrete ACI COMM#403 Bulletin 59-43	300 psi (100% concrete failure)
Flexural Strength ASTM C-580	2,600 psi
Coefficient of friction ASTM D-2047	0.80
Water Absorption ASTM D-570	Nil
Thermal Shock Resistance ASTM C-884	Passes
Abrasion Resistance ASTM C-501	32 mg
Impact Resistance MIL-D-3134F 4.7.3	Withstands 16 ft/lbs without cracking, delamination, or chipping
Compressive Strength ASTM C-579 7 days	7,500 psi
Tensile Strength ASTM C-307	1,100 psi
Density	125-130 ft ³
Thermal Coefficient of Expansion ASTM C-531	2x10 ⁻⁵
Modulus of Elasticity	1.0x10 ⁵ psi
Vicant Softening Point	265-268°F
Thermal Conductivity	7Btu-in/ft ² h°F
Electrical Resistance	2 x 10 ⁸ Ohms

CURING TIME

- Approximately 8 – 12 hours for light foot traffic
- Next day full service

THEORETICAL COVERAGE

33 ft² per kit at 3/16"

CLEAN-UP

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

Safety Precautions

Please refer to our MSDS sheet