



TBS SYSTEM DATA SHEET

TECHNICAL BARRIER SYSTEMS INC.



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EMBE® PERMAGLAZE WALL COATING 100% SOLIDS EPOXY (PIGMENTED)

Description

EMBE® PERMAGLAZE is a high performance, two-component solvent free epoxy wall coating system. The system provides exceptional resistance to impact, thermal shock and abrasion.

Typical Uses

- Commercial kitchens
- Clean rooms, pharmaceutical facilities
- Food & beverage buildings
- Hospital operating rooms, kitchens, & bathrooms
- Food processing and meat packing plants.

Features

- 100% solids epoxy No VOC's
- Easily cleanable surface
- High gloss light reflective finish
- Broad range chemical resistance to many alkalis and acids
- Canadian Food Inspection Agency approved

Limitations

- Only for indoor use
- Minimum cure temperature 50°F 10°C
- Not available in bright white

Application

Surface Preparation:

- Light sanding

Temperature

- Surface temperature min. 50°F (10°C), max. 120°F

- Humidity max 85% or at least 5°F over dew point

Procedures:

- Premix resin and hardener individually. Ensure no pigment remains on bottom of pail.
- Combine 2 parts A : 1 part B
- Mix with slow speed mixer at least 2 minutes.
- Apply coating at rate of 250 sq. ft. /gallon – 6 mils WFT/DFT

Drying: Based on temperature of 77°F

- Dry to touch – 6 hours
- Recoat – 8 hours
- Gel time – 30 minutes.
- Drying time depends on heat, humidity and thickness of film.

Clean up:

- Clean spills and splatter immediately with Xylol

Typical Physical Properties

| | |
|--------------------------|-------------------------|
| Tensile Strength | 9,000 psi 62.1 MPa |
| Flexural Strength | 10,000 psi 68.95 MPa |
| Impact Resistance | 160 in. /lbs |
| Flammability | self extinguishing |
| Shore D Hardness | 65D |
| Bond Strength | Greater than 1 MPa |
| CSA | 25-1-94 |

Performance Properties

| | |
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| Strength Tensile ASTM D 822 | 1700 P.S.I. |
| Abrasion Resistance D 1044(taber) 14 day cure @ 200 | 25 mil loss after ASTM Cycles with CS17wheels, 1000gr load |
| Scrubability Gardener Apparatus ASTM D 2486 | No effect on film after 1000 cycles |
| Surface Hardness (Sward Rocker) | 35 |
| Color Retention Fade-Ometer ASTM E 188 | No fading, loss of gloss or adverse effect on film after 100 hours exposure |
| Fire Rating Tunnel Test ASTM E 84 | Class A Fire rating Flame Spread-5 |
| Chemical Resistance 120 hour open spot test ASTM D 1308 | Excellent resistance to most common reagents, such as medium concentrations of acids, alkalies, and many aliphatic hydrocarbon solvents. High concentrations/exposu res should be referred for evaluation |

Shelf Life:

- 12 months in dry, safe area.

Components

- EMBE Wall Coat Resin and Hardener.
Mix ratio 2 parts resin: 1 part hardener
- 3 gallon, and 15-gallon units.

Safety Precautions

Please refer to product MSDS sheet.

Performance Tips:

- During the early stages of drying, the coating is sensitive to rain, dew, humidity, and moisture condensation. Avoid these conditions during the first 16 – 24 hours of curing.
- Spread rates are based on 100% solids, but are affected by surface profile, roughness or porosity of the concrete. Rate achieved will also be included by technique and skill of the applicator.
- Always test adhesion by applying a test patch of 2 – 3 sq. ft. Allow to dry before checking adhesion.