

## TECHNICAL DATA SHEET



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# EMBE® PERMAGLASS Wall Coating

100% Solids Epoxy with fiberglass cloth

### Description

EMBE® PERMAGLASS is a two-component solvent free epoxy wall coating. Combining broad range chemically resistant coatings with laminated fiberglass cloth, we are able to create an envelope for clean rooms and surgeries that is completely without voids. EMBE® PERMAGLASS has exceptional resistance to chemical attack, mechanical shock, and abrasion.

### Typical Uses

- Commercial kitchen
- Clean rooms, pharmaceutical facilities
- Food and beverage buildings
- Hospital operating rooms, kitchens, and bathrooms

### Features

- 100% solids epoxy
- No VOC's
- Low viscosity for leveling and penetration
- High gloss light reflective finish
- Broad range chemical resistance to many alkalis and acids
- Canadian Food Inspection Agency approved

### Limitations

- For indoor use only

- Concrete surfaces must be cured a minimum of 28 days, and moisture content must be less than 3%
- Vapor barrier must be used for below or on grade applications
- Minimum cure temperature 50°F (10°C)

### Application

- Substrate should be above 50°F (10°C)
- Substrate must be clean, free of dirt, waxes, grease oil and other foreign matter.
- Concrete floors must have latencies removed, preferably by shot blasting, or mechanical sanding.
- Freestanding water must be removed, and substrate must be completely dry prior to application.
- Must be installed by a TBS Approved Applicator

### Physical Properties

<b>Tensile Strength</b>	9,000 psi 62 MPa
<b>Hardness Shore D</b>	65
<b>Impact Strength</b>	160 in./lbs
<b>Flammability</b>	self extinguishing
<b>Fire Resistance</b>	Class A: 2.6 oz cloth @21 mils max
<b>ASTM E-84-91</b>	Class B: 5.8 oz Cloth @ 35 mils max

## Performance Properties

PROPERTY	TEST	RESULTS
Adhesion	To Concrete D952	Exceeds internal strength of backing
Flexibility	Mandrel ASTM D522	Passes 1" without cracking
Strength	Tensile ASTM D822 Impact Gardner	Passes 160in/lbs. without cracking
Wear Resistance	Abrasion Resistance ASTM D 1044 (Taber)	19 milligrams loss after 14 day cure at 500 cycles with CS17 wheels at 100 gram load
Fire Resistance	ASTM E84-91	Class A: 2.6 oz cloth @21mils max Class B: 5.8 oz cloth @ 35 mils max
Chemical Resistance	6 day immersion at 75°F. ASTM D 1308	Excellent resistance to most conventional acids, alkalies & solvents. Extraordinary concentrations should be referred to TBS factory for evaluation.

## 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