



TBS SYSTEM DATA SHEET

TECHNICAL BARRIER SYSTEMS INC.



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EMBE® PERMASHIELD HD

DECORATIVE FLOOR COATING SELF LEVELING BROADCAST

Description

EMBE® PERMASHIELD HD, decorative self leveling broadcast is a monolithic resin rich epoxy system which has inherent skid resistance and can incorporate integral coving. Using clear epoxy binder resins and topcoats blended with medium grade, pigmented ceramic-coated quartz granules this attractive system is tough and resistant to a broad range of chemicals. Typically installed 1/8" thick

Typical Uses

- Animal Care Facilities
- Restaurants and Kitchens
- Water Treatment facilities
- Lockers and Restrooms
- Sports Arenas
- Pharmaceutical Plants

Features

- 100% epoxy - no VOC's
- Durable slip resistant surface
- Seamless
- Does not support the growth of bacteria
- Resin rich matrix is recommended for wet areas
- Chemical and stain resistant
- Canadian Food Inspection Agency approved

Limitations

- Only for indoor use
- Not for use on or below grade without an effective vapor barrier in place
- Do not freeze

- Minimum cure temperature 50°F (10°C)
- Shelf life one year

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

Components

- Primer and Base EMBE Trowel Grade clear – 2:1 mix ratio
- Topcoat EMBE Topcoat Epoxy clear – 2:1 mix ratio OR EMBE Clear AU Sealer 50

Safety Precautions

Please refer to product MSDS sheet.

Physical Properties

Compressive Strength	10,000 psi 68.95 MPa
Tensile Strength	6,000 psi 41.37 MPa
Hardness Shore D	70 d
Impact Resistance	10 ft/lbs
Flammability	self extinguishing

Set Time:

Initial Set - 12 Hours
1st Grout Coat – 12 Hours
2nd Grout Coat – 12 Hours

Cure Schedule:

(After final grout coat @ 72°F (22°C))
Foot traffic – 16 Hours
Vehicular Traffic – 36 Hours
Full Cure – 7 Days

Chemical Resistance after Full Cure

Excellent = unaffected by chemistry

Good = Film integrity intact, slight discoloration, staining, softening

Not Recommended = Severe attack, swelling

Hydrochloric Acid 10%	- Excellent
Hydrochloric Acid 36%	- Good
Sulphuric Acid 10%	- Excellent
Sulphuric Acid 40%	- Good
Sodium Hydroxide 10%	- Excellent
Sodium Hydroxide 50%	- Excellent
Brake Fluid	- Excellent
Diesel Fuel	- Excellent
Engine Oil	- Excellent
Gasoline	- Excellent
Jet Fuel	- Excellent
Transmission Fluid	- Excellent
Acetone	- Not Recommended
Benzene	- Excellent
Methyl Ethyl Ketone	- Not Recommended
Varsol	- Excellent
Hydrogen Peroxide	- Excellent
Beer	- Excellent
Coffee	- Excellent
Lard	- Excellent
Pine Oil	- Excellent
Vegetable Oil	- Excellent

Other products not listed, please contact Technical Barrier Systems Inc.