



TBS COMPONENT DATA SHEET

TECHNICAL BARRIER SYSTEMS INC.



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EMBE® TROWEL GRADE

Heavy Duty Trowelled Mortar

Description

EMBE® TROWEL GRADE, heavy duty trowelled mortar is a monolithic high build epoxy system which can be sloped to drain and can incorporate integral coving. EMBE® TROWEL GRADE is typically installed ¼" thick. Can be installed by hand trowel for small areas or power trowel for large areas.

Typical Uses

- Animal Care Facilities
- Restaurants and Kitchens
- Water Treatment facilities
- Lockers and Restrooms
- Sports Arenas
- Pharmaceutical Plants
- Pulp and paper plants
- Lift truck aisles and maintenance shops
- Shipping and packing areas

Features

- 100% epoxy - no VOC's
- Durable slip resistant surface
- Seamless
- 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

- 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

- EMBE Trowel Grade Resin
- EMBE Trowel Grade Hardener
- 2:1 mix ratio

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

Physical Properties Continued

Skid resistance ASTM C 1028 and
 ASTM F609-96
Average readings Dry 0.67 Wet 0.61

Accepted industry standards – 0.50
coefficient of friction (COF) or above for non
walking hazardous surfaces – ASTM D
2047-96

Cure Schedule:

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

Set Time:

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

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.