

TECHNICAL DATA SHEET



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EMBE® MORRICITE

Thin Set Epoxy Terrazzo (Canada Only)

Description

EMBE® MORRICITE is a lightweight terrazzo flooring system that combines the ageless beauty of terrazzo, with the modern technology of epoxy chemistry to produce thin lightweight decorative flooring.

Designed to handle heavy traffic and to provide a beautiful and durable seamless floor, EMBE® MORRICITE will provide a finish with permanent gloss and long lasting performance. The system components include: optional primer, matrix, grout, sealer, and optional membrane.

Typical Uses

- Institutions – hospitals, schools, churches
- Prestige offices, showrooms and lobbies
- Supermarkets, hotels, restaurants
- Public transit facilities – airports, bus, train, rapid transit stations
- Animal care and holding areas

Features

- Over 30 years of proven performance
- Short installation cycle – floors can be finished within 72 hours
- Life cycle costs are very competitive compared to other flooring systems
- 100% solids epoxy - No VOC's
- High gloss light reflective finish
- Unlimited color options
- Chemical and stain resistant
- Seamless surface

Limitations

- Primarily for indoor use
- Substrate must be level clean sound and dry
- Minimum cure temperature 50°F (10°C)
- Shelf life one year

Application

- Please consult your local area R&D representative
- Must be installed by a R&D Approved Applicator

Physical Properties

Compressive Strength	6,500 psi
ASTM D-695	44.82 Mpa
Hardness Shore D	85 D
ASTM D-1706	
Tensile Strength	5,900 psi
ASTM D-638	40.68 Mpa
Tensile Elongation	6%
ASTM D-638	
Impact Resistance	120 in/lbs
Flammability	self
ASTM D-635	extinguishing
Abrasion Resistance	0.5 grams
ASTM D-968	0.018 Ounces
Bond Strength	300 psi
ACI Committee#403	2.07 MPa
Bulletin 59-43	
Flexural Strength	6500 psi
ASTM D-790	

Physical Properties Con't

Linear Shrinkage ERF-64	.001 in./in max
Fading Resistance ASTM E-188	Epoxy Resin showed no Discoloration Or other physical changes
Impact Strength MIL D-3134 F	16 ft/lbs no chipping detachment, or Indentation
Indentation MIL D-3134, section 4-7-4	No indentation
Resistance to elevated Temperature MIL D-3134 Section 4-7-5	Will not slip or flow, no softening
Thermal Coefficient of Linear Expansion ASTM D-696	25×10^{-6} in./in. Temp. range -12°F to 140°F

Isopropanol Alcohol	Very slight softening
Methyl Isobutyl Alcohol	No Effect
Mineral Oil	No Effect
Mineral Spirits	No Effect
Trichloroethylene	Slight softening
Xylol	No Effect

Packaging

Resin only
 Mix Ratio: 5 Resin: 1 Hardener
 30 gallon (113.56 Litres) units
 Aggregate sold separately

Safety Precautions

Please refer to product MSDS sheet.

Household/Miscellaneous

Coffee	No Effect
Cola Beverage	No effect
Detergent Solution 0.025%	No effect
ASTM No. 3 Oil	No effect

Chemical Resistance

Acids	Specimen Integrity
Acetic 20%	No Effect
Chromic 20%	No Effect
Hydrochloric 10%	No Effect
Lactic 40%	No Effect
Nitric 40%	No Effect
Phosphoric 60%	No Effect
Sulphuric 60%	No Effect
Alkalis	Specimen Integrity
Potassium Hydroxide 30%	No Effect
Sodium Hydroxide 10%	No Effect
Solvents	Specimen Integrity
Carbon Tetrachloride	No Effect
Ethanol	Slight Softening
Gasoline	No Effect