



TBS COMPONENT DATA SHEET

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EMBE® Merdek Topcoat

100% Solids Epoxy Wear Course

Description

EMBE® Merdek Topcoat is a 100% solids, flexible epoxy that is used as the wear intermediate coat or the finish coat, depending on the system specified, in the EMBE® Merdek system. EMBE® Merdek Topcoat is odor free, making it suitable for both indoor and outdoor use. EMBE® Merdek Topcoat is moisture vapor permeable when saturated to rejection with silica aggregate for use on Split-Slab and Slab-On-Grade substrates.

Features

- 100% solid epoxy, no VOCs
- Durable
- Flexible
- Available in a variety of colors
- Chemical resistant
- High gloss finish
- Skid resistant

Typical Uses

- Parking Garages
- Balconies
- Garbage Rooms
- Computer access floors
- Sports facilities
- Pedestrian walkways
- Piers
- Loading docks

Precautions

- Substrate should be between 50°F (10°C) and 90°F (32°C)
- Substrate should be free of dirt, waxes, grease, oil and other foreign materials
- Concrete floors should have laitance removed via shot blasting, mechanical sanding or etching
- New concrete surfaces should be cured a minimum 28 days before coating or delamination may occur
- Cracks and surface defects should be prepared prior to priming

Theoretical Coverage

- 50 – 90 sq. ft. per gallon

Physical Data

Property	Standard	Results
Tensile Strength	ASTM D 412	2000 psi
Tensile Elongation without aggregate	ASTM D 412	70%
Adhesion to prepared concrete	ASTM D 4541	17 Pli
Skid resistance	ASTM D 2047-96	Average readings: Dry 0.67, Wet 0.61

Physical Data Continued.

Adhesion to membrane	ASTM D 4541	20-30 psi
Water vapor transmission	ASTM D 1653	0.35 Perms
Test for surface burning	ASTM E-84	F.S. 14 F.C. 0
Chloride ion	W.J.E. 84005	No increase @ 1" depth

Chemical Resistance

Testing in accordance with ASTM-D-1308 spot test procedure indicates that EMBE® Merdek Topcoat is unaffected by the following reagents.

Automotive Fluids
Grease
Motor Oil
Transmission Oil
Anti-Freeze
Gasoline
Heptane
Hexane

Solvents
Acetone
Methalethol Ketone
Alcohol (Denatured)
Butyl Alcohol
Butyl Acetate
Carbon Tetrachloride
Trichloroethylene
Cellosolve Solvent
Toluene
Xylene
Mineral Spirits
Organic Acids
Acetic 10%
Citric 20%
Lactic 40%
Gluconic 40%
Tartaric 40%

Inorganic Acids
Chromic 20%
Hydrochloric 30%
Nitric 40%
Hydroflouric Acid 20%
Phosphoric Acid 50%

Inorganic Salts
Calcium Chloride 20%
Ammonium Chloride 20%
Sodium Chloride 20%
Sodium Carbonate 20%
Sodium Phosphate 20%
Sodium Sulfate 20%
Magnesium Sulfate 20%

Alkalis
Ammonium Hydroxide (Conc)
Potassium Hydroxide 30%
Sodium Hydroxide 30%
Sodium Silicate 20%
Lime Water – Saturated Calcium - Hydroxide Solution

Miscellaneous Chemicals
Formaldehyde 20%
Hydrogen Peroxide 10%
Javex
Window Cleaner
Vegetable Oil

Colors Available

- Light grey
- Medium grey
- Clay
- Black

Safety Precautions

Please refer to product MSDS sheet