

PRODUCT INFORMATION

CE-264A 10/18 Supersedes 09/13

PENNCOATTM 401 MR LINING

DESCRIPTION

PENNCOAT 401 MR Lining is a 40-50 mil mat reinforced room temperature cured silicon based polymeric lining for concrete substrates. PENNCOAT 401 is applied in two 10-12 mil WFT (wet film thickness) coats over mat reinforced PENNTROWELTM Epoxy Primer. It offers the chemical and temperature resistance of inorganic silicon chemistry with the ease of application and cost effectiveness of conventional organic linings. PENNCOAT 401 is a unique thermosetting silicon polymer which cures with conventional epoxy chemistry yielding highly cross-linked polyether linkages. The absence of problematic hydroxyl and ester groups makes PENNCOAT 401 resistant to a broad range of corrosive chemicals, including 98% sulfuric acid, and chlorinated solvents. When the crack bridging advantages of a glass mat reinforcement are desired, PENNCOAT 401 *MR* (*Mat Reinforced*) utilizes a 1 oz chopped strand glass mat reinforcement in the primer layer. **Consult Corrosion Engineering specification CES-342 for complete installation details.**

AREAS OF USE

PENNCOAT 401 MR Lining is used as a lining for primary and secondary containment of moderately and highly corrosive exposures. It has particularly good resistance to chlorinated solvent chemistry.

PENNCOAT 401 MR Lining can be used as a secondary containment lining to protect concrete pits, dikes, curbs, pads, structural steel members, and vessels from acids, alkalies, and solvents.

PENNCOAT 401 MR Lining can be used as a primary lining in chemical process vessels where conventional epoxy and vinyl ester linings cannot address the chemical environment.

OUTSTANDING FEATURES

- Chemical resistance of silicon chemistry with application ease of epoxy chemistry.
- Ambient temperature cure. Easy to apply by brush, roll or spray.
- Service temperature range of -80° F to 200° F.
- Crack bridging from mat reinforcement in primer layer.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNCOAT 401	
Color	Oyster white or grey	
Density (mixed unit)	11.0 lbs/gal	
VOC Content (mixed unit)	0.85 lbs/gal.	
Pot life (80° F and 50% relative humidity)	1.5 hrs	
Water absorption (ASTM D570)	0.25%	
Tensile strength (ASTM D638)	11,000 psi	
Flexural strength (ASTM D790).	18,000 psi	
Permeability - vapor transmission of water @ 194° F for 7 days	0.0000 gm/sq ft/in	
Flash point (TCC)	152° F	
Mix ratio - Resin:Hardener by volume	6.6:1	
Solids by weight	92.8%	
Lap shear strength (adhesion) (ASTM 1002)	2700 psi @ 75° F	
Hardness	75 -78 Barcol	

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	COVERAGE
PENNTROWEL Epoxy Primer	19676	4 x 1 gal units/case	150 -200 SF/1 gal unit) @ 8 -10 mil WFT on concrete
1 oz glass mat	19639	50" x 125 yard roll	1500 SF/roll
Epoxy Primer saturant for glass mat	19676	4 x 1 gal units/case	50 SF/gal @ 32 mils WFT
PENNCOAT 401 Resin - White	19583	1 x 4.4 gal pail	1 X 5 gal unit consists of 1 x 4.4 gal pail resin and 1 x 0.6 gal pail
PENNCOAT 401 Resin - Grey	26822	1 x 4.4 gal pail	hardener. Coverage is 132 SF/gal@ 12 mils WFT. 2 coats required.
PENNCOAT 401 Hardener	19584	1 x 0.6 gal bottle	Coverage depends upon surface profile. A rough MR substrate may reduce coverage of the first coat due to surface irregularities.

SAFETY PRECAUTIONS / DISCLAIMER

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and <u>material safety data sheets</u> before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.