

DESCRIPTION

PENNCOAT 227 and 227 MR Linings are flake-filled, high functional novolac epoxy polymer lining systems for concrete and steel. As a stand-alone lining, PENNCOAT 227 Lining is applied in two 10-12 mil coats for a total lining thickness of 20-24 mils. It may also be used as a topcoat over other compatible ErgonArmor lining systems. Though no primer is required for adhesion to steel substrates, concrete substrates are first sealed with PENNTROWEL™ Epoxy Primer (CE-139). For enhanced durability, crack-bridging, and film build, PENNCOAT 227 MR Lining includes chopped strand fiberglass mat reinforcement (MR). Consult ErgonArmor specification CES-342 for complete installation details.

FEATURES

- Exhibits excellent resistance to a wide range of acids, alkalis, and solvents
- Flake fillers impart low permeability
- Optional mat reinforcement enhances durability, crack-bridging, and film build
- Contains no VOCs - 100% reactive
- Suitable for brush, roller or spray application

AREAS OF USE

- Secondary containment
- Steel process vessels and storage tanks
- Steel ducts, stacks and other corrosive flue gas handling equipment
- Flooring subject to foot and forklift traffic, chemical splash and spill
- Topcoat for PENNTROWEL™ Surfacer and SB/SBR Systems

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNCOAT 227/227 MR LINING
Color of cured lining	Concrete Gray or red
VOC Content / Solids by weight	0.0 grams/liter (0.0 lb/gal) / 100%
Maximum service temperature	170°F splash & spill, 250°F in flue gas environments
Flexural strength, 7-day (ASTM D790)	>400 psi
Barcol hardness Type D, 48-hour	50-60
Tensile strength, 7-day (ASTM D638)	>3000 psi
Flash point, Pensky-Martins Closed Cup	Penncoat 227 Resin > 212°F 6711 Hardener > 212°F
Work life / Tack free / Full cure time	at 50°F (10°C) - 2 hours/16 hours/72 hours at 70°F (23°C) - 30 minutes/8 hours/48 hours at 90°F (32°C) - 20 minutes/6 hours/24 hours
Mix ratio - Resin: Hardener by volume	2.0: 1.0

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

STEP	PRODUCT	CODE	PACKAGING	COVERAGE*
Primer (concrete)	Penntrowel™ Epoxy Primer	19676	4 x 1 gal units/case	175 sf per gallon at 9 mils WFT
Basecoat and/or Topcoat	Penncoat 227 Resin Gray Penncoat 227 Resin Red 6711 Hardener	19589 29602 25999	3.0 gal pail 3.0 gal pail 1.5 gal pail	A 4.5 gallon unit consists of 1 x 3.0 gallon pail of Resin and 1 x 1.5 gallon pail of Hardener. Coverage is 135 sf per gallon at 12 mils WFT. 2 coats required - basecoat and topcoat.
FOR MR (REINFORCED) VERSION, INSERT THE FOLLOWING AFTER PRIMER LAYER				
Mat reinforcement	1 oz. chopped mat	19639	50 in x 125 yd roll	1500 sf per roll
Saturant for reinforcement	Penntrowel Epoxy Primer	19676	4 x 1 gal units/case	Allow 100 sf per gallon as a saturant
* Theoretical coverage only, does not include allowance for pail loss, surface irregularities, and typical overage allowances.				

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