



## PRODUCT INFORMATION

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**CE-285**  
**04/20 Supersedes 10/18**

### ***PENNCOAT™ 227/227 MR LINING***

#### **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.

#### **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

#### **OUTSTANDING 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

**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	19589	3.0 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.
	Penncoat 227 Resin Red	29602	3.0 gal pail	
	6711 Hardener	25999	1.5 gal pail	
<b>FOR MR (REINFORCED) VERSION, INSERT THE FOLLOWING AFTER PRIMER LAYER</b>				
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 allowance.

**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 safety data sheets 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. For all Terms and Conditions of Sale see [ergonarmor.com](http://ergonarmor.com).

