



PRODUCT INFORMATION

CE-245C
04/20 Supersedes 10/18

PENNTROWEL™ NOVOLAC 60 / 60 MR LINING SYSTEM

DESCRIPTION

PENNTROWEL Novolac 60 and 60 MR Linings are highly functional novolac epoxy-based monolithic lining systems applied at a nominal thickness of 60-65 mils. The systems consist of a penetrating primer, followed by a 60 mil trowel applied base coat. The base coat can be specified using either a silica or a carbon based filler depending on chemical service. An optional final topcoat can be added to seal the lining and adjust finished surface texture if desired.

To upgrade the system, PENNTROWEL 60 MR can be specified. This option incorporates a glass mat reinforcement layer and saturant over the primer to minimize crack transmission into the lining in the event cracks emanate from the concrete.

Use PENNTROWEL Novolac 60 MR Carbon Grade in hydrofluoric acid or hot caustic chemical service. Consult ErgonArmor for details when specifying PENNTROWEL Novolac 60 MR Carbon Grade as a different type of cloth is required.

Consult ErgonArmor specification CES-352 for complete usage and installation details.

AREAS OF USE

- Trenches
- Pits
- Vessels
- Sumps
- Manways
- Floors

OUTSTANDING FEATURES

- Cost effective containment with premium novolac chemical resistance.
- Extremely low absorption and shrinkage.
- Easy workability - quick 2 step application for basic system - primer and basecoat.
- Reinforcing adds strength thus reducing the possibility of cracking.

**PENNTROWEL™ NOVOLAC 60 / 60 MR LINING SYSTEM CE-245C
04/20 SUPERSEDES 10/18 PAGE 2 OF 2**

TYPICAL PHYSICAL PROPERTIES

PROPERTY	SILICA	CARBON
Wet Density	110 lb/ft ³	101 lb/ft ³
Compressive Strength (ASTM C579)	>7,500 psi	>9,000 psi
Tensile Strength (ASTM C307)	>1,500 psi	>1,800 psi
Coefficient of Expansion (ASTM C531)	3.4 x 10 ⁻⁵ /°F	3.5 x 10 ⁻⁵ /°F
Shrinkage, 28-day (ASTM C531)	0.13%	0.11%
Modulus of Elasticity (ASTM C580)	8.8 x 10 ⁵	6.2 x 10 ⁵
Flexural Strength (ASTM C580)	>2,800 psi	>3,500 psi
Service Temperature Limit (Depending on chemical exposure)	190°F-230°F	190°F-230°F

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

STEP	PRODUCT	CODE	PACKAGING	COVERAGE*
Primer	Penntrowel Epoxy Primer	19676	4 x 1 gal units/case	700 sf per case (175 sf per gal at 9 mils WFT)
Base coat for silica grade	6710 Resin 6711 Hardener Penntrowel L/F Filler	19680 19677 19642	4 x 7.8 lb (0.8 gal) cans/case 4 x 4.0 lb (0.5 gal) cans/case <u>55 lb bag (2 needed)</u> 157 lb unit (1.43 cu ft)	274 sf at 1/16 in. thickness per 157 lb unit
Option for 1.0 oz. glass mat	MR reinforcing mat	19639	50 in. x 125 yard (1500 sf) roll	1500 sf per roll
Saturant for cloth	Penntrowel Epoxy Primer	19676	4 x 1 gal units/case	100 sf per mixed gallon as a saturant for 1 oz cloth
Option for top coat	6710 Resin 6711 Hardener	19680 19677	4 x 7.8 lb (0.8 gal) cans/case <u>4 x 4.0 lb (0.5 gal) cans/case</u> 5.2 gal unit	1040 sf per 5.2 gal unit (200 sf per gal at 8 mils WFT)
For PENNTROWEL Novolac 60 MR Carbon Grade, substitute the following for Base Coat and Cloth Layers				
Base coat for carbon grade	6710 Resin 6711 Hardener Penntrowel L/F Filler Carbon	19680 19677 29446	4 x 7.8 lb (0.8 gal) cans/case 4 x 4.0 lb (0.5 gal) cans/case <u>36 lb bag (2 needed)</u> 119 Lb unit (1.18 cu ft)	225 sf at 1/16 in. thickness per 119 lb unit
Reinforcement carbon grade	Synthetic veil mat	21925	48 in. x 500 yd (6000 sf) roll	6000 sf per roll

*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.

