



## PRODUCT INFORMATION

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CE-272  
010/18 Supersedes 09/13

### **PENNTROWEL™ N13 SURFACER**

#### **DESCRIPTION**

Penntrowel N13 Surfacers is a heavy-duty trowel applied monolithic topping compound. Formulated from premium quality novolac epoxy resins, it resists severe chemical exposure including 85% sulfuric acid, 50% caustic, 37% hydrochloric acid, 20% nitric acid, tetrachloroethylene and other strong chemicals and solvents. When trowel applied to a ¼" thickness over a suitably prepared concrete substrate, Penntrowel N13 Surfacers will provide a hard, dense, abrasion resistant, chemical-resistant and thermal shock resistant surfacer for concrete substrates. For heavy traffic, severe impact, and severe thermal shock areas, Penntrowel N13 Surfacers may be specified at 3/8" thickness. Penntrowel N13 Surfacers is applied over Penntrowel Epoxy Primer.

Penntrowel N13 Surfacers is designed to be used with an 'as troweled' finish. The surface can be top coated with ErgonArmor's PENNCOAT™ 227 Lining System to adjust surface gloss if desired, and provide varying degrees of non slip surface texture. Consult your ErgonArmor representative for specific details.

Consult ErgonArmor specification CES-310 for complete usage/installation details.

#### **AREAS OF USE**

- Chemical resistant lining for concrete flooring where the thermal and mechanical advantages of a 1/4" monolithic combined with the chemical resistance of premium quality novolac resin technology is desired.
- Chemical storage areas, chemical mix stations, and chemical tank farms.
- Truck unloading pads.
- A less expensive alternative to acid proof brick construction.

#### **OUTSTANDING FEATURES**

- Easy to mix - components are pre-measured.
- Mixed material trowels easily. May be installed by power troweling methods.
- Outstanding chemical resistance.
- Resists thermal shock.
- Excellent resistance to mechanical abuse.

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	PENNTROWEL N13 SURFACER
Wet density	120 lbs/cu ft (1,922 kg/m3)
Compressive strength (ASTM C579) 1 day 28 days	10,000 psi (68.9 MPa) 12,800 psi (88.3 MPa)
Flexural strength (ASTM C580) 28 days	2,800 psi (19.3 MPa)
Tensile strength (ASTM C307) 7 days	2,100 psi (14.5 MPa)
Bond to concrete (ASTM C321)	Exceeds tensile strength of the concrete
Water absorption (ASTM C413)	0.3%
Coefficient of thermal expansion (ASTM C531)	1.4 X 10 <sup>-5</sup> /°F
Shrinkage (ASTM C531)	0.07%
Work life / Initial set time @ 70°F	30-45 minutes / 3.5-4 hours
Color	Concrete gray

**ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE**

PRODUCT	CODE	PACKAGING	COVERAGE
PT Epoxy Primer	19676	4 x1 gal units/case	600 SF/case (150 SF/gal) @ 11 mils WFT
6710 Resin	19591 19592	4 x 7.8 lb (0.8 gal) cans/case 40 lb (4 gal) pail	A 360 lb unit consists of 1 case (4 x 7.8 lb) resin, 1 case (4 x 4.0 lb) hardener and 4 x 78 lb bags filler, and will cover 144 sf @ 1/4" thickness or 96 sf @ 3/8" thickness.  A 451 lb unit of PENNTROWEL N13 consists of 1 x 40 lb pail resin, 1 x 21 lb can hardener, and 5 x 78 lb bags filler, and will cover 179 sf @ 1/4" thickness or 119 sf @ 3/8" thickness.
6711 Hardener	19593 19595	4 x 4.0 lb (0.5 gal) cans/case 21 lb (2.5 gal) can	
PT Floor Surfacers Filler	19516	78 lb bag	
For vertical surfaces substitute Penntrowel L/F Filler for Floor Surfacers Filler			
Penntrowel L/F Filler	19642	55 lb bag	A 157 lb unit consists of 1 case resin, 1 case hardener and 2 x 55 lb bags L/F filler, and covers 267 SF @ 1/16" thickness, or 133 SF @ 1/8".

**SAFETY PRECAUTIONS / DISCALIMER**

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 material 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.

