

CE-272
09/13 Supersedes 05/02

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 98% 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 may be specified at 3/8" thickness. PENNTROWEL N13 Surfacers is applied over PENNTROWEL Epoxy Primer. **Consult Corrosion Engineering specification [CES-310](#) for complete usage/installation details.**

PENNTROWEL N13 Surfacers is designed to be used with an 'as troweled' finish. The surface can be top coated with PENNCOAT® 227 to adjust surface gloss if desired, and provide varying degrees of non slip surface texture. Consult your Corrosion Engineering representative for specific 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 Surfacers
Wet density	120 lbs/cu ft (1,922 kgs/m ³)
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 ⁻⁵ /°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.
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	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.
FOR VERTICAL SURFACES SUBSTITUTE PENNTROWEL L/F FILLER FOR FLOOR SURFACER FILLER			
PT 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.



Corrosion Engineering | 300 Stevens Drive, Suite 310, Lester, PA 19113
 +1-610-833-4001 Phone | +1-610-833-3040 Fax | corrosion-engineering.com