



# Penntrowel™ N13 Surfacers

## SELECTION & SPECIFICATION DATA

<b>Type</b>	High functional novolac epoxy floor surfacer
<b>Description</b>	Penntrowel N13 Surfacers is a ¼"-3/8" heavy duty floor topping for severe impact and high corrosion applications.
<b>Uses</b>	<ul style="list-style-type: none"><li>• High functional novolac epoxy resin system for maximum corrosion resistance. Resistant to most acids, alkalis and aliphatic solvents.</li><li>• Suitable for thermal shock exposure</li><li>• Truck unloading pads</li><li>• High build thickness resists mechanical abuse</li></ul>
<b>Features</b>	<ul style="list-style-type: none"><li>• Dense graded filler blend, no sealing or topcoat required</li><li>• Easy to trowel apply</li><li>• Can be used to resurface and provide a finish protection layer in a single pass.</li><li>• Conveniently proportioned, easy-to-use mix kits</li></ul>
<b>Limitations</b>	Not for use beyond its chemical resistance capabilities. Consult Armor with specific questions.

## INSTALLATION GUIDANCE

<b>Reference Specification</b>	CES-310 Penntrowel Floor Surfacers installation specification
<b>Installation Conditions</b>	Materials and substrate should be acclimated to the air temperature prior to installation. The air temperature should be between 50°F (10°C) and 90°F (32°C) during installation and cure.
<b>Mixing/Use</b>	Mix ratio Filler:Resin:Hardener is 10.0:1.0:0.52 by weight. Empty Part A resin and Part B hardener into a clean mixing vessel and mix thoroughly using a slow speed drill with suitable blade mixer such as a Jiffiler. Mix for 2 minutes minimum to insure full blending. Slowly add Part C Filler until fully wetted out. Apply by flat trowel over properly primed and prepared substrate. Use of ¼" (6 mm) or 3/8" (9 mm) guide strips to maintain uniform thickness is suggested. Trowel the surface lightly to smooth and close surface. Allow to cure per cure time information below before putting into service.
<b>Work Life</b>	30-45 minutes 70°F (21°C)
<b>Cleanup</b>	Mineral spirits

## CURE TIME

Temperature	Initial Set	Full Cure
70°F (21°C)	60-90 minutes	24 hours

## SAFETY

<b>Safety</b>	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.
<b>Ventilation</b>	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.



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PACKAGING & ESTIMATING

Product	Code	Packaging
6710 Resin	19591	4 x 7.8 lb/3.5 kg (0.8 gal/3.0 l) cans/cs
	19592	40 lb/18.1 kg (4.0 gal/15.1 l) pail
6711 Hardener	19593	4 x 4.0 lb/1.8 kg (0.5 gal/1.9 l) cans/cs
	19595	21 lb/9.5 kg (2.5 gal/9.5 l) pail
Floor Surfacers Filler	19516	78 lb (35.4 kg) bag
Theoretical Coverage	A 360 lb/3 cu ft (163 kg/85 l) unit consists of 1 case of resin, 1 case of hardener and 4 bags of filler and will cover 144 sf (13.38 sm) at ¼" (6 mm) thickness or 96 sf (8.9 sm) at 3/8" (9 mm).	
	A 451 lb /3.76 cu ft (204.6 kg/106.5 l) unit consists of 1 pail of resin, 1 can of hardener and 5 bags of filler and will cover 179 sf (16.6 sm) at ¼" thickness or 120 sf (11.1 sm) at 3/8" (9 mm).	
Storage & Shelf Life	Maintain products in original packaging and sealed until ready for use. Estimated shelf life of components is 18-24 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.  If there is any question with respect to the quality of the components check reactivity prior to use. For assistance consult with Armor.	

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Gray
Wet density	120 lb/ft³ (1,922 kg/m³)
Compressive strength, 1-day, 28-day, ASTM C579	>9000 psi (62 MPa) >12,000 psi (82.7 MPa)
Tensile strength, 7-day, ASTM C307	>2,000 psi (13.8 MPa)
Flexural strength, ASTM C580	>2,500 psi (17.2 MPa)
Bond to concrete, ASTM C321	Exceeds tensile strength of concrete
Water absorption, ASTM C413	0.3%
Shrinkage, ASTM C531	0.07%
Coefficient of thermal expansion, ASTM C531	1.4 x 10 <sup>-5</sup> /°F (2.5 x 10 <sup>-5</sup> /°C)

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