

# Penntrowel™ Novolac L/F Lining System

### **SELECTION & SPECIFICATION DATA**

Mat reinforced high functional novolac epoxy Type

Penntrowel Novolac L/F is a multi-layer mat Description reinforced trowel applied laminate lining/flooring

system suitable for severe chemical service conditions.

 Trenches Uses

· Sumps and pits

· Tanks and process vessels

Floors

**Features** 

· High functional novolac epoxy resin technology

· Incorporated heavy 9.8 oz mat reinforcing for

maximum thermal stress service Crack bridging capabilities

Durable and resistant under repeated thermal

stresses

100% reactive, no VOC's

• Optional carbon grade for hydrofluoric acid

and strong caustic service

Optional cold room hardener to allow curing

as low as 40°F (4°C)

Limitations

Not for use beyond its chemical resistance capabilities. Consult ErgonArmor with specific questions.

#### **INSTALLATION GUIDANCE**

Reference **Specifications**  CES-352 Penntrowel L/F Lining System Installation

specification

Installation **Conditions** 

Materials and substrate should be acclimated to an air temperature of between 50°F (10°C) and 90°F (32°C) during installation and cure. Installation temperature requirements can be lowered with

optional cold room hardener.

Mixing/Use

Mix ratio for the silica grade Filler:Resin:Hardener is 3.5:1.0:0.51 by weight. Mix ratio carbon grade is Filler:Resin:Hardener (2.3:1.0:0.51 by weight.

Consult packaging on page 2 for component package sizes. 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 Jiffler. 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. Apply base coat to a nominal 1/16" (1.66 mm) thickness. Lav reinforcing mat into wet basecoat. Using a serrated roller apply more catalyzed resin onto the mat and work mat into the base coat, eliminating bubbles and wrinkles. Use smaller pieces of cloth for corners and intricate work. Allow mat reinforcing layer to set

Once cured apply a build coat following same mixing and usage rates as the base coat. Trowel lightly to smooth and close the surface. A short nap roller lightly dampened with xylene can be used to help close the surface. Allow to cure per cure time information below before putting into service.

30-40 minutes at 70°F (21°C) **Work Life** 

MEK or xylene Cleanup

**CURE TIME** 

**Temperature Initial Set Full Cure** 70°F (21°C) 3-4 hours

24 hours

**SAFETY** 

Mixes and applications of this product present a Safety

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.

Provide thorough air circulation during and after Ventilation

application until the material has cured when used

in enclosed areas.



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#### **PACKAGING & ESTIMATING**

Product	Code	Packaging
6710 Resin Gray	19591	4 x 7.8 lb/3.5 kg (0.8 gal/3.0 l) cans/cs
6711 Hardener	19593	4 x 4.0 lb/1.8 kg (0.5 gal/1.9 l) cans/cs
L/F Filler Silica	19642	55 lb (25 kg) bag
L/F Filler Carbon	29446	36 lb (16.3 kg) bag
L/F reinforcing mat	19513	10 oz., 38 in. x 400 ft (1200 sf/111.5 sm) roll
Synthetic veil reinforcing cloth	21925	48 in. x 500 yd (6000 sf/557 sm) roll

### Theoretical Coverage

Silica grade: A 157 lb/1.39 cu ft (71.2 kg/39.4 l) unit consists of 1 case of resin, 1 case of hardener and 2 x 55 lb bags of filler and will cover 267 sf (24.8 sm) at 1/16" (1.6 mm) thickness. Base coat and build coat layers each require the same consumption, above should be doubled for full system requirements.

Carbon grade: A 119 lb/1.14 cu ft (54 kg/32.3 l) unit consists of 1 case of resin, 1 case of hardener and 2 x 36 lb bags of filler and will cover 228 sf (21.2 sm) at 1/16'' (1.6 mm) thickness. Base coat and build coat layers each require the same consumption, above should be doubled for full system requirements.

When neat resin and hardener is mixed and used as a saturant for the reinforcing layer allow 520 sf (48.3 sm) per 5.2-gallon (19.7 l) unit.

# 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 ErgonArmor.

### TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Gray, special colors on request Carbon grade is black
Wet density, silica grade Wet density, carbon grade	113 lb/ft³ (1,810 kg/m³) 104 lb/ft³ (1,666 kg/m³)
Compressive strength, 7-day, ASTM C579	>11,000 psi (76 MPa)
Tensile strength, 7-day, ASTM C307	>2,000 psi (13.8 MPa)
Flexural strength, ASTM C580	>5,000 psi (34.5 MPa)
Bond to concrete, ASTM C321	Exceeds tensile strength of concrete
Shrinkage, ASTM C531	0.05%
Service temperature range, chemical dependent	180°F (82°C) - 220°F (104°C)

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