

Penntrowel™ SB/SBR Flooring Systems

SELECTION & SPECIFICATION DATA

Type Slurry broadcast/slurry broadcast reinforced

flooring system

Description Penntrowel SB/SBR Flooring Systems are a

versatile suite of flooring systems for use in mild to moderate chemical service applications. The SB Flooring Systems are available in 3 variations of resin systems: epoxy, high functional novolac

epoxy and high functional vinyl ester.

Process area floorsTank farms

· Truck unloading pads

Floors

Uses

· Pump pads

Tank foundations

• Resistant to most acids, alkalis and aliphatic solvents.

solvents

 Versatile application method allows thicknesses to be achieved ranging from 0.040" to 0.375" (3/8") (1 mm to 9 mm)

 Optional SBR variant incorporates 1 oz. mat reinforcement for resistance against substrate crack propagation

 Easy and fast application by the slurry/broadcast method

Nonslip topcoat may be added over the final
 hyperdagate layer.

broadcast layer

Limitations Not for use beyond its chemical resistance capabilities. Consult Armor with specific

questions.

INSTALLATION GUIDANCE

Reference Specification CES-283 Specification for Penntrowel SB/SBR

Flooring Systems Installation

Installation Conditions

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. Installation temperature requirements can be lowered with optional Cold Room Hardener with the epoxy systems and the use of increased catalyst level with

the vinyl ester system.

Mixing/Use Apply primer per instructions on applicable primer

technical data sheet. If the optional SBR System is specified, embed 1 oz. glass mat into wet primer and

smooth evenly.

Penntrowel Epoxy SB: mix ratio of Resin:Hardener is 1:0:0.08 by weight. Penntrowel Novolac Epoxy SB mix ratio of Resin:Hardener is 1.0:0.51 by weight. Penntrowel Vinyl Ester SB mix ratio is 1-gallon Resin

to 2-3 oz of CHP Hardener.

All systems: 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. Flood mixed resin/hardener onto dried primed substrate and spread evenly with a roller. Broadcast selected sand to excess and allow first flood coat to dry. Sweep away excess sand and apply subsequent flood coats and additional broadcast steps to achieve final build thickness. Apply final topcoat to seal the Floor System. Broadcast lightly into topcoat to achieve a non-slip texture if desired.

Work Life 45-60 minutes at 70°F (21°C)

Cleanup Xylene or MEK

CURE TIME

Temperature	Initial Set	Full Cure
70°F (21°C)	Foot traffic 8 hours Light vehicle traffic 18 hours	24 hours for vinyl ester, 72 hours for the epoxies

<u>SAFETY</u>

Safety

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.

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Ventilation Provide thorough air circulation during and after

application until the material has cured when used

in enclosed areas.



Penntrowel[™] SB/SBR Surfacer

PACKAGING & ESTIMATING

Product	Code	Packaging
Penntrowel Epoxy SB Penntrowel Epoxy Resin Gray Penntrowel Hardener	19679 19678	50 lb (22.7 kg) 5-gal pail 40 lb (18.1 kg) 5-gal pail
Penntrowel High Functional Novolac SB 6710 Resin 6711 Hardener	19592 19595	40 lb (18 kg) 4-gal pail 21 lb (9.5 kg) 2.5-gal can
Penntrowel High Functional Vinyl Ester SB		
Penntrowel Vinyl Ester Resin Gray Penntrowel Vinyl Ester Resin Clear CHP Hardener	19637 29464 21922	43 lb (19.5 kg) 5-gal pail 43 lb (19.5 kg) 5-gal pail 8.3 lb (3.8 kg) 1-gal can
Theoretical Coverage	A 540 lb (55-gallon) unit of Penntrowel Epoxy SB consists of 10 pails of resin and 1 pail of hardener and will cover 6890 sf (640 sm) at 12.8 mils (325 μm) thickness*. A 61 lb (6.5-gallon) unit of Penntrowel Novolac SB consists of 1 pail of resin and 1 pail of hardener and will cover 815 sf (76 sm) at 12.8 mils (325 μm) thickness*. A 43 lb (5-gallon) unit of catalyzed Penntrowel Vinyl Ester SB consists of 1 pail of resin and 10 oz. (1.5% by volume) of hardener and will cover 625 sf (58 sm) at 12.8 mils (325 μm) thickness*.	
	depending	mil thickness may vary on coarseness of aggregates. Consult on CES-283.
Storage & Shelf Life	packaging use. Estima componen 18-24 mon area at 70°F life of comp componen stored in a	roducts in original and sealed until ready for ted shelf life of ts of epoxy components is this when stored in a dry (21°C). Estimated shelf conents of vinyl ester ts is 6 months when dry area at 70°F (21°C). If life may vary with aditions.
	to the qual	ny question with respect ity of the components ivity prior to use. For consult with Armor.

TYPICAL PHYSICAL PROPERTIES

depending on total build thickness

Property	Typical Value
Color	Gray, special colors on request
Wet density filled, typical	120 lb/ft ³ (1,922 kg/m ³)
Compressive strength, 7-day, ASTM C579	>10,000 psi (69 MPa)
Flexural strength, ASTM C580	>3,000 psi (20.7 MPa)
Bond to concrete, ASTM C321	Exceeds tensile strength of concrete
Water absorption, ASTM C413	<0.2%
Shrinkage, ASTM C531	<0.1%
Heat resistance, ASTM C884 modified, Epoxy SBR	150°F (65°C) continuous 165°F (74°C) intermittent
Heat resistance, ASTM C884 modified, High functional novolac epoxy SBR	170°F (76°C) continuous 190°F (88°C) intermittent
Heat resistance, ASTM C884 modified, High functional vinyl ester SBR	170°F (76°C) continuous 190°F (88°C) intermittent
Note: physical property values may vary	

Rev 11/2025

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