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Penntrowel[™] Novolac SB/SBR Flooring System

SELECTION & SPECIFICATION DATA

SELECTION & SPECIFICATION DATA		INSTALLATION GUIDANCE		
Туре	Novolac epoxy floor surfacer	Reference Specifications	CES-294 Specification for Pennt Surfacers installation	rowel SB/SBR
Description	Penntrowel Novolac SB Flooring System is a ¼" (6 mm) high functional novolac epoxy flooring system for severe chemical service applications. Meets or exceeds ASTM C722 types A and B for chemical resistant monolithic surfacings. It is applied by the slurry/broadcast method for fast 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 by using optional Cold Room Hardener.	
	The optional Novolac SBR system variant incorporates a 1 oz. mat reinforcement into the primer layer for additional resistance against substrate crack propagation. A topcoat may be applied onto the finished base layer for varying aesthetics. A suitable aggregate can be broadcast into the topcoat to achieve a non-slip finish.	Mixing/Use	Mix ratio Filler:Resin:Hardener is weight. Empty Part A resin and clean mixing vessel and mix tho speed drill with suitable blade r Mix for 2 minutes minimum to i Slowly add Part C filler until fully mixed material onto substrate a with a flat trowel over properly substrate at a nominal 3/16" (4.	Part B hardener into a broughly using a slow nixer such as a Jiffler. nsure full blending. y wetted out. Pour and smooth into place primed and prepared
Uses	 Process area floors Chemical plant floors Tank farms Truck unloading pads Floors Pump pads Tank foundations 		of guide strips to maintain units suggested. Immediately seed to inert filler. Allow to cure per cur below before applying optional surface if desired. Allow to fully into service.	orm thickness is excess with a dry e time information topcoat to seal
Features	 High build thickness resists mechanical abuse High functional novolac epoxy resin system for maximum chemical resistance Resistant to most acids, alkalis and aliphatic solvents Dense graded filler blend, no sealing or topcoat required Easy to apply by slurry/broadcast method Conveniently proportioned, easy-to-use Optional cold room hardener allows curing as 		When the Novolac SBR version is specified, apply a neat coat of catalyzed resin onto the cured primer. Embed the 1 oz mat into the wet resin. Apply additional neat catalyzed resin saturant onto the mat reinforcement. Spread evenly and use a serrated roller to eliminate bubbles and wrinkles. Use smaller pieces of mat for corners and intricate work. Allow mat reinforcing layer to set hard. Once cured apply the Penntrowel Novolac SB build coat following mixing and usage instructions as described above.	
	low as 40°F (4°C)	Work Life	30-40 minutes at 70°F (21°C)	
Limitations	Not for use beyond its chemical resistance capabilities. Consult ErgonArmor with specific questions.	Cleanup	MEK or xylene	
		CURE TIME		
		Temperature	Initial Set	Full Cure
		70°F (21°C)	Foot traffic 6-8 hours Light vehicle traffic 18 hours	24 hours
		<u>SAFETY</u>		
		Safety	Mixes and applications of this p number of hazards. Read and fo information, precautions and fin the individual product labels an before using.	bllow the hazard rst aid directions on
		Ventilation	Provide thorough air circulatior application until the material ha in enclosed areas.	



Penntrowel™ Novolac SB/SBR Flooring System

PACKAGING & ESTIMATING

Product	Code	Packaging		
Resin	19592	40 lb/18.1 kg (4.0 gal/15.1 l) pail		
Hardener	19595	21 lb/ 9.5 kg (2.5 gal/9.5 l) pail		
Tufchem™Grout Filler	21931	60 lb (27.2 kg) bag		
1 oz. reinforcing mat	19639	50 in. x 375 ft (1500 sf/139 sm) roll		
Theoretical Coverage	A 361 lb/3.1 cu ft (164 kg/88.9 l) unit consists of 1 pail of resin, 1 pail of hardener and 5 bags of filler and will cover 195 sf (18.1 sm) at 3/16" (4.8 mm) thickness. Finished thickness will be a nominal ¼" (6 mm) after aggregate seeding.			
	hardener, yie Theoretical o	t consists of 1 pail of resin and 1 pail elding 6.5 mixed gallons (24.6 l). of the topcoat is 1300 sf (121 sm) per 6.5- l) unit when applied at 8 mils (200 μm)		
	saturant for	esin and hardener is mixed and used as a the 1 oz. mat reinforcing layer allow 650 per 6.5-gallon (24.6 l) unit.		
Storage & Shelf Life	until ready fo is 18-24 mor	oducts in original packaging and sealed or use. Estimated shelf life of components nths when stored in a dry area at 70°F al shelf life may vary with storage		
	the compon	y question with respect to the quality of ents check reactivity prior to use. For onsult with ErgonArmor.		

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Gray, special colors on request
Wet density	115 lb/ft ³ (1,842 kg/m ³)
Compressive strength, 7-day, ASTM C579	>10,000 psi (69 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	<0.1%
Shrinkage, ASTM C531	<0.1%
Coefficient of thermal expansion, ASTM C531	1.7 x 10⁻5/°F (3.1 x 10⁻5/°C)
Heat resistance, ASTM C884 modified	200°F (93°C) continuous

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