ErgonArmor
TECHNICAL COATING SOLUTIONS™

PRODUCT INFORMATION

CE-283
10/18 Supersedes 09/13

PENNTROWEL™ SB/SBR FLOORING SYSTEMS

DESCRIPTION

PENNTROWEL SB (Slurry Broadcast) and SBR (Slurry Broadcast Reinforced) Flooring Systems are premium quality chemical resistant floor lining systems. They are designed for fast installation in mild to moderately demanding chemical service by utilizing squeegee/broadcast methods of installation. PENNTROWEL SB systems are available in three specific generic compositions to address a wide variety of chemical exposures. The available systems include: ***Vinyl ester*** resin incorporating a novolac backbone molecular structure, a ***bisphenol A epoxy*** system, and a high functionality grade ***novolac epoxy*** resin utilizing a modified cycloaliphatic amine hardening system for superior cross linking. These systems are ideal for protecting flooring subjected to chemical spillage, fork lift traffic, impact, and abrasion. Thickness can be varied from 40 mils (.040") to 3/8"(.375") by utilizing different sized aggregates, and varying the number of seeding steps. When the crack bridging advantages of a glass mat reinforcement are desired, the optional PENNTROWEL SBR grade may be specified, which utilizes a 1 oz chopped strand glass mat reinforcement in the primer layer.

For complete installation details, consult Corrosion Engineering installation specification CES-283.

AREAS OF USE

PENNTROWEL SB and SBR Flooring Systems are suitable for use in the following flooring applications:

- Secondary Containments
- Truck Unloading Pads
- Non-Slip Surfacings
- Waste Treatment Plants
- Chemical Storage Areas
- Chemical Transfer Areas
- Tank Farms
- Chemical Production Areas
- Power Plant Floors

OUTSTANDING FEATURES

- Very quick installation offers excellent value in terms of installed cost per mil of thickness.
- Resistant to a wide range of acids, alkalis, solvents, and salt solutions.
- Quick cure for fast turnarounds.
- Surface texture and degree of non slip finish can be easily varied to accommodate individual preferences.
- Excellent bond to properly prepared and primed concrete substrates.

TYPICAL PHYSICAL PROPERTIES

PROPERTY*	PENNTROWEL VINYL ESTER SB	PENNTROWEL EPOXY SB	PENNTROWEL NOVOLAC EPOXY SB
Compressive Strength	+14000 PSI	+10000 PSI	+11000 PSI
Cure Time (foot traffic)	4 hrs @ 70°F	6-8 hrs @ 70°F	6-8 hrs @ 70°F
Max. Service Temp	160°F	160°F	170°F
Chemical Resistance (Consult ErgonArmor for specific recommendations)	oxidizing acids, bleaching solutions	acids/caustics, H2SO4 to 50%	85% H2SO4, chlorinated solvents
Recommended Lining Thickness	For secondary containment, PENNTROWEL SB systems are usually specified at 80 mil (.080") or 120 mil (.120") thickness. Thickness can be varied from 40 mils (.040") to 3/8" (.375") by utilizing different sized aggregates, and varying the number of seeding steps.		
Color	Grey - special colors available subject to minimum order quantities		
*Physical properties note:	Many physical properties such as tensile strength, coefficient of expansion, flexural, density & absorption will vary with PENNTROWEL SB systems, depending upon the method of installation, number of seeding steps, lining thickness, and number of specified top coats. Accordingly, values for these properties are not reported here, so as not mislead the specifier or owner. Consult with ErgonArmor for specific questions in this regard.		

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PENNTROWEL SB and SBR Systems may be installed utilizing more than 1 method, depending upon the experience and preferences of the lining contractor.

Thickness can be varied from 40 mils (.040") to 3/8" (.375") by utilizing different sized aggregates, and varying the number of seeding steps. Depending on the size and angularity of the selected aggregates, differing surface textures are also achieved.

Test panels or clearly agreed upon surface textures are recommended before commencement of large scale work.

Complete installation steps are detailed in Corrosion Engineering specification CES283, and this document should be consulted for complete estimating purposes.

SAFETY PRECAUTIONS / DISCLAIMER

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.