

CE-294
09/13 Supersedes 04/05

PENNTROWEL[®] 250 SB / 250 SBR FLOORING SYSTEMS

DESCRIPTION

PENNTROWEL 250 SB (Slurry Broadcast) and SBR (Slurry Broadcast Reinforced) Flooring Systems are multi component chemical resistant floor lining systems designed for fast installation in moderately demanding chemical service, especially where thermal shock is a concern. PENNTROWEL 250 SB and SBR may be used for renovating old concrete floors and as an overlay for new concrete floor protection. The system is ideal to protect flooring subjected to chemical spillage, fork lift traffic, impact, and abrasion. A dry inert aggregate is added to a catalyzed premium epoxy binder to yield a semi-flowable consistency. This mixture is then poured onto a suitably prepared concrete substrate and spread to 3/16" or 1/4" thickness, followed immediately by seeding to excess the fresh surface with a dry inert filler.

As an alternate upgrade, a 1 oz chopped strand glass mat reinforcement can be specified to be added into the primer layer to provide membrane type reinforcing under the 3/16" or 1/4" top wear layer. For this application, specify the SBR (Reinforced) system. A top coat may be applied if desired to either the SB or the SBR system. A non slip texture can be incorporated into the topcoat if desired by adjusting the coarseness of the broadcast sand in the topcoat. **Consult specification [CES-294](#) for complete installation details.**

AREAS OF USE

- Secondary Containments
- Waste Treatment Plants
- Tank Farms
- Truck Unloading Pads
- Chemical Storage Areas
- Beverage & Food Plants
- Non-Slip Surfacing
- Chemical Process Areas
- Power Plant Floors

If the surfacing system is to be exposed to hydrofluoric acid, fluoride salts or hot caustics, a carbon aggregate filler is to be used.

OUTSTANDING FEATURES

- Achieves 3/16" or 1/4" build in a single pass without multiple seeding steps
- Resistant to a wide range of dilute acids, alkalis, solvents, and salt solutions.
- Excellent bond to properly prepared and primed concrete substrates.
- High flexural strength
- Very low absorption
- Quick cure for fast turnarounds

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNTROWEL 250 SB
Compressive Strength (ASTM C-579)	11,000 psi minimum
Flexural Strength (ASTM C-580)	3,500 psi minimum
Coefficient of Expansion (ASTM C-531)	17×10^{-6} /in/in /°F
Water Absorption (ASTM C-413)	<0.1 %
Temperature Resistance - Splash & Spill	190°F Consult Corrosion Engineering for specific applications
Chemical Resistance	Very good - Consult Corrosion Engineering for specific applications
Standard Color	Gray - Colors available subject to minimum order
Slurry Mix Ratio - Resin/Hardener/Filler Topcoat Mix Ratio - Resin/Hardener	By wt - 2.3:1:12 By vol - 2:1:6 By wt - 2.3:1 By vol - 2:1
Wet Density "Slurry Mix"	115 lbs per cubic ft (15.4 lbs/gal)

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

STEP	PRODUCT	CODE	PACKAGING	COVERAGE
Primer	PT Epoxy Primer	19676	4 x 1 gal units	640 sf/4 gal cs @ 10 mils WFT
Slurry/Broadcast Layer	PT 250 Resin Gray PT PT 250 Hardener TUFCHEM ® Grout Filler	19635 19633 21931	47 lb pail (1 x 5 gal) 20 lb j can (1 x 2.5 gal) 60 lb bag (5 x 60lb) 367 lb unit	148 sf per 367 lb unit @ 1/4" thickness 198 sf per 367 lb unit @ 3/16" thickness
Broadcast sand	20-40 mesh or equal	27468	50 lb bag	.6 - 1lb /sf ²
Top coat	PT 250 Resin Gray PT 250 Hardener	19635 19633	47 lb pail (1x5 gal) 20 lb j can (1x2.5 gal)	1500 sf / 7.5 gal unit @ 8 mils WFT
FOR SBR (REINFORCED) VERSION, INSERT THE FOLLOWING INTO PRIMER LAYER				
Reinforcement	1 oz chopped mat	19639	50" x 125 yd roll	1500 sf per roll
Saturant for Reinforcement	PT Epoxy Primer	19676	4 x 1 gal units	50 SF per gal @ 32 Mils WFT

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.



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