

CE-247
09/13 Supersedes 01/99

PENNTROWEL[®] 250 SURFACER

DESCRIPTION

PENNTROWEL 250 Surfacer is a pigmented high performance silica filled epoxy based monolithic floor topping. It has been formulated with the most up-to-date resin technology to withstand high temperatures and thermal cycling. It exhibits excellent chemical, abrasion, and impact resistance. PENNTROWEL 250 Surfacer meets or exceeds ASTM C-722 for both types A & B chemical resistant resin monolithic surfacings. PENNTROWEL 250 Surfacer employs a tight graded matrix and is self sealing. Surface sealing and cleanability is improved, however, with the addition of top coat of PENNTROWEL 250 Resin/Hardener. The top coat can then be optionally seeded with # 12 sand to adjust the surface texture if desired. **Consult Corrosion Engineering specification [CES-310](#) for complete usage / installation details.**

AREAS OF USE

PENNTROWEL 250 Surfacer is designed as a 1/4" trowel applied floor system for use in chemical process and food processing plants where it is necessary to resist the aggressive exposures of a combination of repeated thermal cycling, moderate to harsh chemical service, and demanding traffic conditions.

PENNTROWEL 250 Surfacer may be specified as a less expensive alternative to brick or tile systems.

PENNTROWEL 250 Surfacer maybe used in areas subjected to corrosive process liquids at elevated temperatures such as floors, pump pads, and tank foundations.

OUTSTANDING FEATURES

- Can withstand intermittent temperatures up to 250°F (121°C) and remains structurally sound in repeated thermal cycling from ambient temperatures up to 190°F (88°C).
- Excellent chemical resistance.
- Impressive physical characteristics including high tensile, flexural and compressive strengths, low absorption and low coefficient of thermal expansion.
- Excellent workability. Easy to mix and trowel.
- PENNTROWEL 250 Surfacer has an optional Cold Room Hardener that allows it to cure as low as 40°F (4.4°C).

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	PENNTROWEL 250 SURFACER
Wet Density	118 lbs/cu ft
Tensile Strength (ASTM C-307)	2000 psi
Compressive Strength (ASTM C-579)	10,000-10,500 psi 7 days @ 70°F (21°C)
Flexural Strength (ASTM C-580)	3,500-4,000 psi
Adhesion to Concrete (ASTM -C321)	350 psi, Greater than tensile strength of concrete
Water Absorption (ASTM C-413)	0.02%
Coefficient of Expansion (ASTM C-531)	17.1 x 10 ⁻⁶ in/in/°F
Shrinkage (ASTM C-531)	0.046%
Heat Resistance (ASTM C-884 Modified)	190°F (88°C) (continuous) 250°F (122°C) (intermittent spills / occasional steam)
Working Life Foot Traffic Light Traffic Heavy Traffic	45-60 minutes 4.5 hours 18 hours 24 hours
Maximum Strength	7 days
Mix Ratio (Filler: Resin: Hardener)	10: 1.0 :0.42 by weight
Standard Color	Gray - special colors available upon request

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGE SIZE	COVERAGE
PENNTROWEL 250 Resin - Gray	19634 19635	4 x 7.8 lb (0.83 gal) cans/case 47 lb (5.0 gal) pail	A 356 lb unit consists of 1 case resin, 1 case hardener and 4 x 78 lb bags powder, and will cover 144 SF @ 1/4" thickness.
PENNTROWEL 250 Hardener (Part B)	19632 19633	4 x 3.3 lb (0.4 gal) cans/case 20 lb (2.5 gal) jerrican	
PENNTROWEL Floor Surfacer Powder	19516	78 lb (35.4 kg) bag	A 535 lb unit consists of 1 pail resin, 1 jerrican hardener, and 6 x 78 lb bags powder, and will cover 216 SF @ 1/4" thickness.
OPTIONAL TOP COAT CONSISTING OF PENNTROWEL 250 RESIN/HARDENER			
PT 250 Resin PT Hardener	19634 19632	4 x 0.83 gal (7.8 lb) cans/ case 4 x 0.4 gal (3.3 lb) cans/ case	A 4.9 gal unit of PT 250 Resin and Hardener consists of 1 case of resin and 1 case of hardener, and will cover 735 SF (150 SF/gal) @ 10 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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