

CE-287
09/13 Supersedes 01/10

PENNTROWEL[®] UT500 SL SURFACER

DESCRIPTION

PENNTROWEL UT500 SL Surfacers is a heavy-duty, chemical resistant urethane concrete floor topping formulated with antimicrobial agents. It is designed for application by the slurry self-level method at a nominal 3/16"-1/4" (4.5 - 6 mm) thickness. On floors exposed to demanding mechanical loads or thermal shock, use of PENNTROWEL UT500 HD Surfacers is suggested. Standard colors include red and gray. **Consult specification [CES-286](#) for complete installation details.**

PENNTROWEL UT500 SL Surfacers offers benefits of urethane concrete technology combined with ease of use of the slurry self-level method of installation. UT500 SL Surfacers provides exceptional performance under moderate thermal cycling conditions that epoxy based toppings may not withstand. However, urethane concrete floors offer function over form and should not be specified where a decorative finish is desired.

PENNTROWEL UT500 SL Surfacers incorporates a breakthrough patented antimicrobial technology employing ionic silver to inhibit the growth of micro-organisms, bacteria and molds including E-coli and MRSA. Independent tests have shown the technology to have high efficacy against harmful bacteria and fungi.

The surface texture of PENNTROWEL UT500 SL Surfacers may be adjusted for build thickness and slip resistance with the use of varying broadcast aggregates provided it is top coated with PENNTROWEL UT500 TC Coating (product data sheet CE-288).

AREAS OF USE

Food processing, canning, packing, meat cutting/fabricating, beverage bottling, dairies, pulp and paper plants, chemical processing, plating, etching, steam kettle area flooring.

OUTSTANDING FEATURES

- Unaffected by temperature spills up to 200°F (93°C).
- Excellent chemical resistance.
- Quick slurry self-level installation method. Virtually odorless during installation.
- Short cure time - same-day service restoration possible.
- Textured surface provides good slip-resistance, wet or dry.
- Color Pak formulation offers wide color range, combined with ease of jobsite use.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNTROWEL UT500 SL SURFACER
Density	132 lb/ft ³ (2.1 gm/cm ³)
Compressive Strength (ASTM C579)	8,120 psi (56 MPa)
Flexural Strength (ASTM C580)	2,900 psi (20 MPa)
Tensile Strength (ASTM C307)	1,450 psi (10 MPa)
Water Absorption	<0.1%
Maximum Service Temperature	200°F (93°C)
Thermal Coefficient of Expansion (ASTM C531)	2.7 x 10 ⁻⁵ in/in/°F (4.9 X 10 ⁻⁵ cm/cm/°C)
Abrasion Resistance (ASTM D4060)	0.05 g loss, CS-17 Wheel, 1,000 cycles
Work Life	15-20 minutes
Set Time @ 70°F (21 °C)	Foot traffic in 6 hours; forklift traffic in 12 hours; full set including full chemical resistance in 24 hours.
Colors	Red or gray. Other colors upon request.

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	COVERAGE
Horizontal Surfacers:			
UT500 Resin	22184	5 lb jcan	1 x 47 lb unit of SL Surfacers consists of a 5 lb jcan resin + 1 x 5 lb jcan hardener + 1 lb pigment pack + 1 x 36 lb bag powder, and will cover 24 SF @ 3/16" or 18 SF @ 1/4".
UT500 Hardener	22185	5 lb jcan	
UT500 SL Powder	22187	36 lb bag	
UT500 Pigment Grey	23525	1 lb pack	
UT500 Pigment Red	23526	1 lb pack	
*PENNTROWEL Epoxy Primer *	19676	4x1 gal cans/case	150-200 SF/gal (600-800 SF/cs) @ 8-10 mils WFT.

* Primer use is suggested in certain cases where out gassing of concrete may cause surface defects in finished UT500 SL Surfacers. Install test area to determine if priming is required.

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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