

CE-286
09/13 Supersedes 01/10

PENNTROWEL[®] UT500 HD SURFACER

DESCRIPTION

PENNTROWEL UT500 HD Surfacers is a heavy-duty, chemical resistant urethane concrete floor topping formulated with antimicrobial agents. It is designed for trowel application at a nominal 1/4"-3/8" (6-9 mm) thickness. On floors exposed to demanding mechanical loads or thermal shock, application at 3/8" (9 mm) is recommended. A Vertical Surfacers (VS) grade is also available for forming a nominal 3/16" (4.75 mm) thick integral cove base if desired. Standard colors include red and gray. **Consult specification [CES-286](#) for complete installation details.**

Based on polyurethane resin, PENNTROWEL UT500 HD Surfacers resists attack from most solvents, organic and inorganic acids, salts, and alkalis and out-performs epoxy toppings on floors exposed to steam and hot water.

PENNTROWEL UT500 HD Surfacers offers a similar coefficient of expansion to the underlying concrete. It provides exceptional performance under demanding thermal cycling conditions that many other toppings would not withstand. However, urethane concrete floors offer function over form and should not be specified where a decorative finish is desired.

PENNTROWEL UT500 HD 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.

AREAS OF USE

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

OUTSTANDING FEATURES

- Unaffected by high temperature spills up to 250°F (120°C).
- Excellent chemical resistance.
- 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 HD SURFACER
Density	132 lb/ft ³ (2.1 gm/cm ³)
Compressive Strength (ASTM C579)	7,700 psi (53 MPa)
Flexural Strength (ASTM C580)	2,750 psi (19 MPa)
Tensile Strength (ASTM C307)	1,500 psi (10 MPa)
Water Absorption	<0.1%
Maximum Service Temperature	250°F (120°C)
Thermal Coefficient of Thermal Expansion (ASTM C531)	1.1 x 10 ⁻⁵ in/in/°F (1.98 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 UT500 Hardener UT500 HD Powder UT500 Pigment Pack Grey UT500 Pigment Pack Red	22184 22185 22186 23525 23526	5 lb jcan 5 lb jcan 55 lb bag 1 lb pack 1 lb pack	A 66 lb unit of UT500 HD Surfacers consists of a 1 x 5 lb jcan resin + 1 x 5 lb jcan hardener + 1 x 1 lb pigment pack + 1 x 55 lb bag powder, and will cover 24 SF @ 1/4" or 18 SF @ 3/8".
Vertical Surfacers: UT500 Resin UT500 Hardener UT500 VS Powder UT500 Pigment Pack Grey UT500 Pigment Pack Red	22188 22189 22190 23525 23526	2.5 lb can 2.5 lb can 26 lb bag 1 lb pack 1 lb pack	Use with PT Epoxy Primer 1 x 31 lb unit of Vertical Surfacers consists of a 2.5 lb can resin + 2.5 lb can hardener + 1 lb pigment pack + 1 x 26 lb bag powder and will cover 11 SF @ 3/16" or 33 LF of 4"x4"X4" curbing @ 3/16".
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 HD Surfacers. Install test area to determine if priming is required. Primer is also suggested for VS (Vertical Surfacers) applications.

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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