

CE-288
09/13 Supersedes 01/10

PENNTROWEL[®] UT500 TC COATING

DESCRIPTION

PENNTROWEL UT500 TC (Top Coat) Coating is a three component polyurethane high build topcoat system. It is designed to enhance the appearance of PENNTROWEL UT500 HD and UT500 SL Surfacer systems, and can also be used as a stand alone coating system in areas such as vertical surfaces and curbing areas. Standard colors include red and gray. PENNTROWEL UT500 TC Coating is applied at a nominal thickness of 18-22 mils (500 um) per coat. **Consult specification [CES-286](#) for complete installation details.**

PENNTROWEL UT500 TC Coating provides a sterile easy to clean anti-slip surface to enhance the appearance of Corrosion Engineering's UT 500 Surfacer family of floor lining systems. It offers excellent abrasion resistance and can withstand routine cleaning cycles within its temperature limits.

PENNTROWEL UT500 TC Coating 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, steam kettle area flooring.

OUTSTANDING FEATURES

- Excellent chemical resistance.
- Quick slurry installation method. Virtually odorless during installation.
- Short cure time - same-day service restoration possible.
- Textured surface provides good slip-resistance, wet or dry.
- Cost effective alternative for non traffic bearing curbing areas.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNTROWEL UT500 TC Coating
Density	12.0 lbs/gal (1.4 gm/cm ³)
Comprehensive Strength (ASTM C579)	7000 psi (48 MPa)
Flexural Strength (ASTM C580)	2,750 psi (19 MPa)
Tensile Strength (ASTM C307)	1800 psi (12 MPa)
Water Absorption	<0.1%
Thermal Coefficient of Expansion (ASTM C531)	2.2 x 10 ⁻⁵ in/in/°F (4.2 X 10 ⁻⁵ cm/cm/°C)
Abrasion Resistance (ASTM D4060)	0.07 g loss, CS-17 Wheel, 1,000 cycles
Adhesion (ASTM D 4541)	> 300 psi (2.1 MPa)
Work Life	15 minutes @ 77°F (25°C)
Service Temperature	140°F (60°C) when used as a stand alone lining.
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 are standard. Other colors upon request.
Primer (where required)	PENNTROWEL Epoxy Primer (CE-139)

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	COVERAGE
Penntrowel UT500 TC Coating: UT500 Resin UT500 Hardener UT500 TC Coating Powder UT500 Pigment Grey UT500 Pigment Red	22184 22185 23524 23525 23526	5 lb jcan 5 lb jcan 6 lb bag 1 lb pack 1 lb pack	1 x 17 lb unit of UT500 TC Coating consists of a 1 x 5 lb jcan resin + 1 x 5 lb jcan hardener + 1 x 1 lb pigment pack + 1 x 6 lb bag powder, and will cover 100-120 sf @ 20 mils nominal thickness.
*PENNTROWEL Epoxy Primer *	19676	4x1 gal cans/case	150-200 SF/gal (600-800 SF/cs) @ 8-10 mils.

* Primer use is suggested in certain cases where out gassing of concrete may cause surface defects in finished UT500 TC Coating. 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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