

**CE-139**  
**02/15 Supersedes 09/13**

### **PENNTROWEL<sup>®</sup> EPOXY PRIMER**

#### **DESCRIPTION**

PENNTROWEL Epoxy Primer is a 2-component, liquid epoxy resinous primer used to promote adhesion to concrete and steel substrates. It can be used as a concrete to concrete bonding agent, as well as with Corrosion Engineering's surfacer and lining systems. These include PENNTROWEL Epoxy Broadcast Systems, PENNTROWEL Epoxy L/F Systems, PENNTROWEL 250 Surfacer and SB Systems, and PENNCOAT<sup>®</sup> 221 and 227. Tolerance for surface moisture allows PENNTROWEL Epoxy Primer to be applied to suitably prepared, damp or dry concrete or steel substrates. When substrate surfaces and ambient air temperatures are between 35°F-50°F (2°C -10°C) during installation and cure, substitute Epoxy Cold Room Hardener for PENNTROWEL Epoxy Hardener. Refer to CE-159 Epoxy Cold Room Hardener for mix ratio guidance. Note the Epoxy Primer cured with Cold Room Hardener does not exhibit moisture tolerant capabilities. **Consult Corrosion Engineering specification [CES-342](#) for complete installation details.**

#### **AREAS OF USE**

Adhesion promoter for PENNTROWEL monolithic flooring systems, and PENNCOAT lining systems when applied to suitably prepared concrete, brick masonry and steel surfaces.

A wet bonding agent for the placement of new concrete against old concrete.

An epoxy sealer for concrete in order to improve the surface strength of the concrete.

A moisture resistant barrier on masonry surfaces.

#### **OUTSTANDING FEATURES**

- PENNTROWEL Epoxy Primer is supplied as a 2-component, proportioned unit for ease of mixing in the field.
- Excellent adhesion to concrete, brick, tile and steel surfaces.
- Resists corrosive effects of dilute inorganic acids, alkalis, alkaline salts, acid salts, oils, grease, milk products, fats, blood, most dilute organic acids and many solvents.
- PENNTROWEL Epoxy Primer systems are USDA compliant for use in meat and poultry plants.

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	PT Epoxy Primer	Epoxy Cold Room Hardened Primer
Solids content (By weight)	100%	87.7%
Weight per mixed gallon	8.9 lbs.	9.1 lbs.
Viscosity (Mixed components)	1200 -1400 cps.	250 - 350 cps.
Water absorption (ASTM C413)	<1%	<1%
Adhesion to: Concrete Brick	Greater than strength of concrete Greater than strength of brick	Greater than strength of concrete Greater than strength of brick
Cure Time to Tack-Free Hard finish	50°F - 16 hrs 70°F - 8 hrs 90°F - 6.5 hrs	35°F - 18 hrs 50°F - 5-6 hrs 70°F - 3-4 hrs

**ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE**

PRODUCT	CODE	PACKAGING	COVERAGE*
PT Epoxy Primer Unit	19676	4 x 1 gal units/case	150-200 SF/gal @ 8-10 mil WFT on concrete
PT Epoxy Primer - large unit PT Epoxy Primer - Resin PT Epoxy Primer - Hardener	19675 19699	16 gal unit consisting of 4 x 3 gal (28 lb) pails 4 x 1 gal (7.6 lb) cans/case	325-525 SF/gal @ 3-5 mil WFT on steel
Epoxy Cold Room Hardener (in place of standard hardener, consult CE-159)	29447	2.5 gallon (20 lb) jerrycan	As above on a mixed gallon basis

\*Application coverage of PENNTROWEL Epoxy Primer will vary depending on the thickness to which the product is applied, the method of application, and the roughness of the surface being primed.

**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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