

CE-309M
11/12 Supersedes 10/11

PENNTROWEL[®] CONDUCTIVE EPOXY PRIMER

DESCRIPTION

PENNTROWEL Conductive Epoxy Primer is a 2-component, resinous conductive epoxy based penetrating primer used to promote adhesion to concrete and steel substrates of Ergon's surfacer and lining systems which include the PENNTROWEL series of floor lining systems and the PENNCOAT[®] series of corrosion resistant lining systems. PENNTROWEL Conductive Epoxy Primer is formulated with unique conductive fillers to make it suitable for electrostatic discharge, static disseminating and spark proof floor lining systems. Consult your Corrosion Engineering representative for specific project requirements when PENNTROWEL Conductive Epoxy Primer is used in conjunction with other topcoat or surfacer systems. **Consult Corrosion Engineering specification [CES-342](#) for complete installation details.**

AREAS OF USE

PENNTROWEL Conductive Epoxy Primer serves as an adhesion promoter for Ergon Corrosion Engineering surfacers, laminate lining systems and PENNCOAT lining systems when applied to suitably prepared concrete surfaces.

A conductive primer to provide a conductivity layer for subsequent top coat layers.

A moisture-resistant barrier on concrete and masonry surfaces.

OUTSTANDING FEATURES

- 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.
- Cures quickly, allowing fast turnaround time.
- PENNTROWEL Conductive Epoxy Primer is low odor and uses a low viscosity penetrating resin for maximum substrate penetration on concrete or porous substrates.

**PENNTROWEL® CONDUCTIVE EPOXY PRIMER CE-309M
11/12 SUPERSEDES 10/11 PAGE 2 OF 2**

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNTROWEL Conductive Epoxy Primer
Color	Dark Grey-Black
Wet Density	1.22 (mixed)
Viscosity (mixed)	3500-4000 cps
Solids	53%
Electrical Properties (ASTM F-150, NPPF #99)	<25000 ohms
Mix Ratio Resin: Hardener (by Weight)	7.0:1.0
Flash point of resin (Part A) (ASTM D93)	27°C
Adhesion to concrete (ASTM D-4541)	Greater than strength of concrete (tensile failure within concrete)
Pot Life	4 hours @ 25°C
Cure time to tack free hard finish	10°C - 4 hours 21°C - 2 hours 32°C - 1 hour
Recoat/Topcoat Window @ 25°C	8 hours minimum – 7 days maximum Consult Ergon if recoat time is exceeded
Thinner/Diluent	Up to 10%/vol xylene to thin to ease application
Shelf Life/Storage	1 year at 20°C is stored in sealed containers in a dry cool place. Do not store in direct sunlight

ESTIMATING/PACKAGING THEORETICAL QUANTITIES –NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	*COVERAGE
Penntrowel Conductive Epoxy Primer Resin	50243	21 Kg Pail	A 24.0 kg unit consists of 1 x 21.0 kg pail of Resin and 1 x 3.0 kg can of Hardener.
Penntrowel Conductive Epoxy Primer Hardener	50244	3.0 kg can	Coverage on concrete: 50m ² per 24 kg unit @ 130 µm DFT *All coverages are theoretical and do not take into account pail loss, surface irregularities, curing reduction or overage allowances.

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.



Corrosion Engineering | 300 Stevens Drive, Suite 310, Lester, PA 19113
+1-610-833-4001 Phone | +1-610-833-3040 Fax | corrosion-engineering.com