



## PRODUCT INFORMATION

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CE-138

10/18 Supersedes 09/13

# **PENNTROWEL™ VINYL ESTER PRIMER**

### **DESCRIPTION**

PENNTROWEL Vinyl Ester Primer is a 2-component, resinous vinyl ester penetrating primer used to promote adhesion to concrete and steel substrates of Corrosion Engineering's surfacers and lining systems which include PENNTROWEL Vinyl Ester Broadcast System, PENNTROWEL Vinyl Ester L/F Systems, ACROCAST™ Vinyl Ester Concrete, and PENNCOAT™ 321, 331 and 340. **Consult Corrosion Engineering specification CES-342 for complete installation details.**

### **AREAS OF USE**

PENNTROWEL Vinyl Ester Primer is used as an adhesion promoter for Corrosion Engineering vinyl ester lining systems and when applied to suitably prepared concrete, brick masonry and steel surfaces. It is not compatible with latex-modified concretes, underlayments, or patching materials.

PENNTROWEL Vinyl Ester Primer may be used as a vinyl ester based sealer for concrete in order to improve the surface strength of the concrete.

PENNTROWEL Vinyl Ester Primer can be used as a moisture-resistant barrier on masonry surfaces.

### **OUTSTANDING FEATURES**

- PENNTROWEL Vinyl Ester 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.
- Cures quickly, allowing fast turnaround time.

**TYPICAL PHYSICAL PROPERTIES**

| PROPERTY  | PENNTROWEL Vinyl Ester Primer  |
|---|--|
| VOC content (By weight)   | <5% (solvent reacts and polymerizes during cure)   |
| Flash point of resin (Part A) (ASTM D93)                                | 90-95°F (32-35°C)  |
| Color   | Clear-Amber  |
| Weight per gallon (mixed)   | 8.9 lbs. (1.1 KG/L)  |
| Viscosity (mixed)   | 350-450 cps.   |
| Water absorption (ASTM C413)  | <1%  |
| Adhesion to concrete<br>Adhesion to brick<br>Adhesion to steel (7 days) | Greater than strength of concrete<br>Greater than strength of brick<br>1200-1400 psi (8.3-9.6 MPa) |
| Cure time to tack free hard finish                                      | At 50°F (10°C), 7-8 hrs<br>At 70°F (21°C), 3-4 hrs<br>At 90°F (32°C), 2-3 hrs                      |

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

| PRODUCT  | CODE           | PACKAGING                               | COVERAGE   |
|--|----------------|---|--|
| PT Vinyl Ester Primer Resin<br>PT Vinyl Ester Primer Resin   | 19514<br>19515 | 4 x 0.75 gal<br>cans/case<br>5 gal pail | 1 x 3 gal unit consists of 1 case VE Primer Resin and 1 x 0.7 pint bottle hardener.  |
| CHP Hardener   | 19552          | 0.7 pint bottle                         | 1 x 5 gal unit consists of 1 x 5 gal pail VE Primer Resin and 1 x 0.7 pint bottle hardener.<br><br>Concrete: 125-150 SF/gal @ 9-11mils WFT<br>Steel: 250-300 SF/gal @ 5-6 mils WFT |
| <b>For MR Linings incorporating glass mat reinforcement, add the following:</b>                    |                |   |  |
| 1 oz mat for MR system   | 19639          | 50" x 125 yard roll                     | 1500 SF/roll   |
| Saturant for glass mat for MR (mat reinforced) system only)<br>Use PT VE Primer Resin / CHP above. |                |   | 125 SF/gal   |

**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.

