



**Corrosion  
Engineering™**

AN ERGONARMOR COMPANY

**TECHNICAL INFORMATION**

**CES-235**

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## ***CORROSION ENGINEERING SPECIFICATION FOR INSTALLATION***

### ***PENNTROWEL® LATEX UNDERLAYMENT***

#### **1. SCOPE**

- 1.1 This specification governs the installation of PENNTROWEL Latex Underlayment as described on product data sheet CE-235.
- 1.2 Do not use PENNTROWEL Latex Underlayment as an underlayment with any vinyl ester based linings without the written permission of Corrosion Engineering.

#### **2. SURFACE PREPARATION**

- 2.1 Concrete surfaces whether new or old shall be prepared in accordance with ASTM D4258, "Standard Practice for Surface Cleaning for Coating"; ASTM D4259, "Standard Practice for Abrading Concrete"; ASTM D4260, "Standard Practice for Acid Etching Concrete."
- 2.2 New concrete surfaces to which the Underlayment is applied shall be clean, sound and exhibit a roughened texture appearance, free of laitance, glaze, efflorescence and incompatible concrete curing agents or form release agents.
- 2.3 Old concrete surfaces to which the Underlayment is to be applied shall be sound, clean, fully degreased, free of laitance, efflorescence, and any incompatible chemical hardeners or sealers.
- 2.4 Concrete surfaces to which the underlayment will be applied must exhibit a compressive strength of a minimum 3,000 psi (tested with a Schmidt Hammer).
- 2.5 Concrete surfaces may be damp, but any free standing water must be removed prior to application.

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- 2.6 Concrete Surface and ambient air temperatures in the working area must be at least 45°F (7°C) to minimize cure time.

**3. MIXING**

- 3.1 Mix ratio is approximately 75 pounds filler to one gallon binder. Mix the binder thoroughly to disperse any sediment which may have settled. For best mixing, pour about half the Binder into a clean, dry pail. Stir the Binder remaining in the can, then pour it into the pail. Mix thoroughly, pour pail contents into the original container. A mortar hoe or trowel can be used for manually mixing the binder, but slow speed mechanical mixers give best results.
- 3.2 Pour a measured amount of mixed Binder (Part B) into a clean, dry mortar pan or mechanical mixer. Slowly add the filler (Part A) while mixing with a hoe or trowel or while the mechanical mixer is operating. Mix until the mortar is wetted, free of lumps, and a uniform consistency.
- 3.3 Underlayment which has begun to set cannot be recovered by adding more Binder and must be discarded.
- 3.4 Never add water, Portland cement, or any other additive to either component or the mixed underlayment.

**4. PLACING**

- 4.1 Once mixed the Underlayment should be placed and finished within 40 to 60 minutes.
- 4.2 Prime the concrete surface with a liberal brush coating of Binder (Part B), directly from the container. Be sure that the Binder has been mixed according to the preceding instructions. PENNTROWEL Latex Underlayment must be applied over WET primer. If the primer dries or is absorbed by the concrete surface, apply another coat.
- 4.3 Dump the mixed Underlayment onto the primed substrate. Work quickly; to avoid surface skinning. Screed the mixture evenly over the area using a vibrating sawing motion. Finish as desired with a trowel or broom.

**5. EQUIPMENT CLEANING**

- 5.1 Clean tools and equipment with fresh water immediately after using.

**6. SAFETY PRECAUTIONS AND DISCLAIMER**

- 6.1 PENNTROWEL Latex Underlayment components, and mixes of them present a number of hazards. Read before using and follow the hazard information, precautions, and first aid directions on the individual product labels and Material Safety Data Sheets.
- 6.2 The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Corrosion Engineering expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before installation. Nothing contained herein should be taken as an inducement to infringe any patent and the user is advised to take appropriate steps to be assured that any proposed use of the product will not result in patent infringement.
- 6.3 Please contact Corrosion Engineering for specific recommendations at +1-610-833-4000 or fax +1-610-833-3040.

***[www.penntrowel.com](http://www.penntrowel.com)***