



**Corrosion
Engineering™**

AN ERGONARMOR COMPANY

TECHNICAL INFORMATION

CES-303

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CORROSION ENGINEERING SPECIFICATION FOR INSTALLATION

PENNCOAT® 101 MEMBRANE LINING

1. SCOPE

- 1.1 This specification governs the installation of PENNCOAT 101 hot melted multi layer asphalt membrane lining system.

2. APPLICATION

- 2.1 Concrete shall be poured to proper grade and wood floated. It shall be free of high and low spots, and from pits, cavities or honeycombing. Slope shall be 1/4" to the foot (18 mm. to the meter).
- 2.2 After two weeks cure and concrete is dry to touch, apply with a stiff brush a single coat of PENNPRIME® 101 asphalt primer until all floor area shows black color. Allow to dry for at least 8 hours, or until it is dry (not tacky to the touch).
- 2.3. Since PENNCOAT 101 Membrane is an asphalt product, it must be heated to be applied. For best results, PENNCOAT 101 should be heated to and applied between 325°F-400°F (163°C-204°C). Lower temperatures will result in difficulty in applying. Higher temperatures can result in loss of properties.
- 2.4 Care should be used in the initial heating of a kettle containing cold solid asphalt. Apply heat slowly until the area around the heating tubes is liquid, then increase the heating rate as additional quantities of solid asphalt are added. Excessive temperatures can cause coke to form around heating tubes. This coke should be removed as soon as possible as it will serve as an insulator resulting in poor heat transfer and premature tube failure.

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- 2.5 Melt PENNCOAT 101 hot membrane and apply by squeegee (do not use mops or brushes) to a minimum thickness of 1/8" (3.2 mm.).
- 2.6 Roll into the top surface a single ply of PENNPLY[®] 101 asphalt impregnated glass cloth reinforcing, lapping all edges 2" (50 mm.) and smoothing out any wrinkles or bulges.
- 2.7 Apply another 1/8" (3 mm) thick coat of PENNCOAT 101 Membrane as in Paragraph 2.5, to provide a minimum over-all thickness of 1/4" (6.4 mm).
- 2.8 If so specified, a second layer of cloth and a third 1/8" (3.2 mm.) layer of asphalt shall be applied, to a minimum total thickness of 3/8" (9.5 mm).
- 2.9 Membrane shall be carried up all walls, columns and bases to a height of 2" (51 mm.) above the floor slab. For protection to pump foundations, carry membrane to full height of brickwork over vertical walls.
- 2.10 Powdered silica (325 mesh size) or mortar powder may be dusted over membrane surface to prevent sticking of workmen's shoes.
- 2.11 Step 2.8 may be omitted in floor areas but is recommended in trenches, pits, and sumps.

3. SAFETY PRECAUTIONS AND DISCLAIMER

- 3.1 PENNCOAT 101 Membrane 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.
- 3.2 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

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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.

- 3.3 Please contact Corrosion Engineering for specific recommendations at +1-610-833-4000 or fax +1-610-833-3040.

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