

CE-142
09/13 Supersedes 08/02

PENNCOAT[®] 101 MEMBRANE

DESCRIPTION

PENNCOAT 101 Membrane is a multiple layer, chemical-resistant, asphaltic membrane barrier that is applied as a built-up system to suitably prepared concrete substrates. It is used as an underlying membrane on concrete substrates to be further protected with chemical resistant brickwork. PENNCOAT 101 consists of the following components: PENNPRIME[®] 101, an asphaltic cutback primer; PENNCOAT 101 an unfilled, fluxed, 100% solid oxidized asphalt; and PENNPLY[®] 101, an open mesh glass cloth saturated with an asphaltic compound. PENNCOAT 101 is installed at a nominal 1/4" thickness for flooring applications, and 3/8" for trench and sump service subject to continuous immersion service. **Consult Corrosion Engineering specification [CES-303](#) for complete installation details.**

AREAS OF USE

PENNCOAT 101 Membrane is applied to concrete substrates, and is protected by chemical-resistant masonry or polymer concretes to provide physical and thermal protection. It is widely used as a membrane for protecting concrete structures such as floors, trenches, vessels, sumps, and manholes.

OUTSTANDING FEATURES

- Broad chemical resistance - suitable for a wide range of acid and alkali exposures
- Excellent value - economical installed cost compared to other membrane systems
- Full 1/4" thickness provides positive sealing for concrete substrates.
- Conveniently packaged to facilitate easy handling and use
- Multiple layer application incorporating mat reinforcement insures pinhole free lining

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNCOAT 101
Ash Content (% max)	0.5
Specific Gravity at 77° F (25° C) (ASTM D71)	0.99
Ball & Ring Softening Point (ASTM D36)	210°-230° F (99°-110° C)
Penetration (ASTM D36) @ 32° F (0° C) (200 gm - 60 seconds) @ 77° F (25° C) (100 gm - 5 seconds)	20 dmm minimum 30 - 40 dmm
Flash Point (ASTM D92) Cleveland Open Cup Test	500° F (260° C) minimum
PROPERTY	PENNPRIME 101
Asphalt Content (% by weight)	35 - 43
Ash Content (% by weight)	0.5 maximum
Viscosity at 77° F (25° C)	30 - 50 cps
Penetration of Residue at 77° F (25° C) (ASTM D5)	20 - 60
Softening Point of Residue (ASTM D5)	145°-225° F (63°-107° C)
Flash Point (ASTM D93) Pensky-Martens Closed Tester	110° F (43° C)
PROPERTY	PENNPLY 101
Tensile Strength at 70° F (21° C)	35 lbs/inch
Tensile Strength with warp at 70° F (21° C)	60 lbs/inch
Meets ASTM D1668 and FED SPEC HHC 466B	

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	COVERAGE
PENNPRIME 101	19643	5 gal (19 L) pail	750 SF/pail (70 sm/pail)
PENNPLY 101	21930	3' x 150' or 450 SF Roll	450 SF/roll (42 sm)- Allow 3" (75 mm) for seam overlaps
PENNCOAT 101	29432	100 lb (45.4 kg) carton	1.5 lbs/sq ft @ 1/4" thick. (7.3 kg/sm @ 6mm) 2.25 lbs/sq ft @ 3/8" thick (11 kg/sm @ 9 mm)

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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