

CE-142 Page 1 of 2 Penncoat[™] 101 Membrane

SELECTION & SDECIEICATION DATA

SELECTION & SPECIFICATION DATA		INSTALLATION GUIDANCE		
Туре	Hot melt asphalt membrane	Reference Specifications	CES-303 Penncoat 101 Installa	ation specification
Description	Penncoat 101 Membrane is a multiple layer hot applied asphalt membrane. It is applied as a built- up system at a nominal ¼" (6 mm) thickness to protect suitably prepared concrete substrates. It consists of the following components: Pennprime	Installation Conditions	Materials and substrate shoul the air temperature prior to ir air temperature should be be and 90°F (32°C) during installa	nstallation, and the tween 50°F (10°C)
Uses	 101 primer, Pennply 101 reinforcing cloth, and Penncoat 101 membrane. Install as a membrane under acid-resistant brick and polymer concretes Use as a component layer in concrete vessel linings under acid brick 	Mixing/Use	The Penncoat 101 system is a Pennprime 101 is a single con and is first applied by roller or prepared concrete substrate a (typically 8 hours at 70°F/21°C solid material that is normally pieces and charged into a sui melting kettle set to 325°F-40	nponent material nto a suitably and allowed to dry C). Penncoat 101 is a r cut up into smaller table asphalt
Features	 Broad chemical resistance Excellent value – economical installed cost Full ¼" (6 mm) thickness provides positive sealing for concrete substrates Convenient packaging Multi layer application insures pinhole free lining Bridges hairline cracks in concrete Shelf life stable 		Once it has turned liquid it is applied onto the dry Pennprime 101 by use of flat squeegee to a nominal thickness of 1/8" (3 mm). Before the Penncoat 101 layer has fully cooled and solidified, a layer of Pennply 101 cloth is cut from the supplied roll and embedded into the soft Penncoat 101 membrane and smoothed to remove wrinkles with a squeegee. Once the reinforced membrane has been allowed to cool, a second layer of Penncoat 101 membrane is applied over the Pennply 101. For additional	
Limitations	 Not recommended as a stand-alone lining. Care must be taken when using in enclosed areas. Not for use beyond its chemical resistance capabilities. Consult ErgonArmor with specific questions. 		protection and for use in sumps and trenches the Pennply and Penncoat layers can be repeated resulting in a completed 3/8" (9 mm) thick system. Take care when applying the Penncoat 101 membrane system on verticals, multiple passes may be required as the natural tendency of the hot-melt membrane is to self- level.	
		Work Life	Heated Penncoat 101: 10-20 minutes	
		Cleanup	Mineral spirits	
		<u>CURE TIME</u>		
		Temperature	Initial Set	Full Cure
		70°F (21°C)	30 minutes	2 hours
		<u>SAFETY</u>		
		Safety	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 safety data sheets before using.	
		Ventilation	Provide thorough air circulati application until the material used in enclosed areas.	



PACKAGING & ESTIMATING

Product	Code	Packaging	
Pennprime 101	19643	5-gallon (18.9 l) unit	
Pennply 101	22365 21930	150' (45.7 m) x 18" (.46 m) roll 150' (45.7 m) x 3' (.9 m) roll	
Penncoat 101	29432	100 lb (45.4 kg) carton	
Theoretical Coverage	Pennprime 101: 750 sf (70 sm) per pail Pennply 101: 225 or 450 sf (21 or 42 sm) depending on roll size. Allow 3" (75 mm) for seam overlap Penncoat 101: 1.5 lb per sf (7.3 kg per sm) when applied at ¼" (6mm) thickness, 2.25 lb per sf (11 kg per sm) when applied at 3/8" (9 mm) thickness		
Storage & Shelf Life	Maintain product in original packaging and sealed until ready for use. When stored at 70°F (21°C) in a dry location, Penncoat 101 and Pennply 101 are shelf stable. Estimated shelf life of Pennprime 101 is 24 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions. If there is any question with respect to the quality of the components check prior to use. For assistance consult with ErgonArmor.		

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value				
Pennprime 101					
Asphalt content, % by weight	35-43				
Viscosity, 77°F (25°C)	30-50 cps				
Flash Point, ASTM D93	110°F (43°C)				
Pennply 101					
Tensile strength, 70°F (21°C)	35 lb/inch				
Tensile strength with warp, 70°F (21°C)	60 lb/inch				
Penncoat 101					
Color	Black				
Specific gravity, ASTM D71	0.99				
Ball and ring softening point, ASTM D36	210°F -230°F (99°C-107°C)				
Penetration, ASTM D36, 77°F (25°C)	30-40 dmm				

Rev 02/2025

TERMS AND CONDITIONS OF SALE

While 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. For all Terms and Conditions of Sale see ergonarmor.com.

Division of Ergon Asphalt & Emulsions, Inc. | P.O. Box 1639, Jackson, MS 39215-1639 | 601-933-3381 Fax | 601-933-3595 Phone | 877-98ARMOR Toll-Free | ergonarmor.com