

# Penncoat™ 101 Membrane

## SELECTION & SPECIFICATION DATA

|                    |                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>        | Hot melt asphalt membrane                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b> | Penncoat 101 Membrane is a multiple layer hot applied asphalt membrane system. 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 101, Penncoat 101 Fabric, and Penncoat 101.                                                                                                   |
| <b>Uses</b>        | <ul style="list-style-type: none"> <li>• Install as a membrane under acid-resistant brick and polymer concretes</li> <li>• Use as a component layer in concrete vessel linings under acid brick</li> </ul>                                                                                                                                                                                            |
| <b>Features</b>    | <ul style="list-style-type: none"> <li>• Broad chemical resistance</li> <li>• Excellent value – economical installed cost</li> <li>• Full ¼" (6 mm) thickness provides positive sealing for concrete substrates</li> <li>• Convenient packaging</li> <li>• Multi layer application insures pinhole free lining</li> <li>• Bridges hairline cracks in concrete</li> <li>• Shelf life stable</li> </ul> |
| <b>Limitations</b> | <ul style="list-style-type: none"> <li>• 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.</li> </ul>                                                                                                                                                    |

## INSTALLATION GUIDANCE

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference Specifications</b> | CES-303 Penncoat 101 Installation specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Installation Conditions</b>  | Materials and substrate should be acclimated to the air temperature prior to installation, and the air temperature should be between 50°F (10°C) and 90°F (32°C) during installation and cure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Mixing/Use</b>               | The Penncoat 101 Membrane System is applied in layers. Pennprime 101 is a single component material and is first applied by roller onto a suitably prepared concrete substrate and allowed to dry (typically 8 hours at 70°F/21°C). Penncoat 101 is a solid material that is normally cut up into smaller pieces and charged into a suitable asphalt melting kettle set to 325°F-400°F (163°C-204°C). 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, Penncoat 101 Fabric is cut from the supplied roll and embedded into the soft Penncoat 101 and smoothed to remove wrinkles with a squeegee. Once the reinforced membrane has been allowed to cool, a second layer of Penncoat 101 is applied over the Penncoat 101 Fabric. For additional protection and for use in sumps and trenches the Penncoat 101 Fabric 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. |
| <b>Work Life</b>                | Heated Penncoat 101: 10-20 minutes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cleanup</b>                  | Mineral spirits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## CURE TIME

| Temperature | Initial Set | Full Cure |
|-------------|-------------|-----------|
| 70°F (21°C) | 30 minutes  | 2 hours   |

## SAFETY

|                    |                                                                                                                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safety</b>      | 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. |
| <b>Ventilation</b> | Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.                                                                                                |

# Penncoat™ 101 Membrane

## PACKAGING & ESTIMATING

| Product                         | Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Packaging                      |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Pennprime 101                   | 19643                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5-gallon (18.9 l) unit         |
| Penncoat 101 Fabric             | 21930                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 150' (45.7 m) x 3' (.9 m) roll |
| Penncoat 101                    | 29432                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100 lb (45.4 kg) carton        |
| <b>Theoretical Coverage</b>     | Pennprime 101: 750 sf (70 sm) per pail<br>Penncoat 101 Fabric: 450 sf (42 sm) depending on roll size. Allow 3" (75 mm) for seam overlap<br>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                                                                                                                                                                         |                                |
| <b>Storage &amp; Shelf Life</b> | 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 Penncoat 101 Fabric 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.<br><br>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             |
|-----------------------------------------|---------------------------|
| <b>Pennprime 101</b>                    |                           |
| Asphalt content, % by weight            | 35-43                     |
| Viscosity, 77°F (25°C)                  | 30-50 cps                 |
| Flash Point, ASTM D93                   | 110°F (43°C)              |
| <b>Penncoat 101 Fabric</b>              |                           |
| Tensile strength, 70°F (21°C)           | 35 lb/inch                |
| Tensile strength with warp, 70°F (21°C) | 60 lb/inch                |
| <b>Penncoat 101</b>                     |                           |
| 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. 10/2025**

### 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](http://ergonarmor.com).