

CE-293 Page 1 of 2 Pennchem[™] 97 Membrane

SELECTION & SDECIEICATION DATA

| SELECTION & SPECIFICATION DATA | | INSTALLATION GUIDANCE | | |
|--------------------------------|--|------------------------------|---|---|
| Туре | Urethane polymer membrane | Reference Specification | CES-335 Pennche Specification. | m 97 Membrane Installation |
| Description | Pennchem 97 Membrane is a 2-component trowelable liquid applied elastomeric urethane membrane. | Installation Conditions | Pennchem 97 Membrane is formulated for ideal handling at 70°F (21°C). Materials and substrate should be acclimated to the air temperature | |
| Uses | Chemical resistant membrane for protecting concrete and steel in the following applications: Under chemical resistant masonry Under polymer concrete Under brick linings in bleach towers Under brick linings in ClO₂ towers Waterproofing Crack-bridging base coat Secondary containment lining | | prior to installation, and the air temperature should be between 50°F (10°C) and 90°F (32°C) during installation and cure. Preparation of concrete in accordance with SSPC- SP13 is suggested. Concrete should be clean and dry with a profile similar to a 100-150 grit sandpaper. Primer on concrete is not required for adhesion but the use of Penntrowel™ Epoxy Primer or Novocoat™ SC1100 Primer/Sealer is suggested to minimize | |
| Features | Good resistance to acids and alkalis Flexible from -40°F (-40°C) to 160°F (71°C) Crack-bridging Easy to mix and trowel apply High bond strength Spark testable on steel substrates | | outgassing from concrete substrates. Preparation of steel in accordance with SSPC-SP 10 is suggested. Primer is not required on steel but the use of Pennguard [™] HP Epoxy Primer is suggested to minimize re-rusting of freshly blasted substrates. | |
| Limitations | Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions. | Ratio | 1.9 gallons resin: units only. | 499 grams hardener. Mix full |
| | | Mixing | Do not mix partial kits. Open the pail and remove the bottle of hardener and divider. Remove and discard surface skin on resin if present. Mix the resin to loosen it. Open the bottle of hardener and pour it slowly into the resin. Mix very thoroughly, moving the mix blade up, down and around the sides of the pail until a uniform color is achieved and the hardener is fully dispersed. | |
| | | Application | flat trowel to achi two passes, wet o first coat has dried | onto prepared substrate with a eve desired thickness. Apply in n wet, to minimize pinholes. If d, abrade the surface to o applying the second coat. |
| | | Work Life | 45-60 minutes at | 70°F (21°C) |
| | | | Work life is shorte longer at cooler te | r at higher temperatures and emperatures. |
| | | Cleanup | Xylene or MEK | |
| | | CURE TIME | | |
| | | Substrate | Initial Set | Full Cure |
| | | 70°F (21°C) | 5-6 hours | 36 hours |
| | | | | |



CE-160 Page 2 of 2 Pennchem[™] 97 Membrane

PACKAGING, ESTIMATING & HANDLING

| nnchem 97 Membrane Kit Tan196872-gallon (7.5 L) kitnnchem 97 Membrane Kit White197002-gallon (7.5 L) kitnnchem 97 Membrane Part A Tan196881.9-gallon (7.2 L) pailnnchem 97 Membrane Part B19689499 gm bottle2-gallon unit consists of a 1.9-gallon pail of Part A resin and a 499-gmttle of Part B hardener. Order Part A and part B separately for U.S. export.Peoretical25.7 square feet per unit at 1/8-inch (3.2 mm) WFT32 square feet per unit at 100 mils (2.54 mm) WFT32 square feet per unit at 100 mils (2.54 mm) WFTwhen 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 reactivity prior to use. For assistance consult with ErgonArmor. | Inchem 97 Membrane Kit Tan196872-gallon (7.5 L) kitInchem 97 Membrane Kit White197002-gallon (7.5 L) kitInchem 97 Membrane Part A Tan196881.9-gallon (7.2 L) pailInchem 97 Membrane Part B19689499 gm bottle-gallon unit consists of a 1.9-gallon pail of Part A resin and a 499-gmtle of Part B hardener. Order Part A and part B separately for U.S. export.eoretical25.7 square feet per unit at 1/8-inch (3.2 mm) WFT32 square feet per unit at 100 mils (2.54 mm) WFTDrage & elf LifeMaintain products in original packaging and sealed until ready for use. Estimated shelf life 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 reactivity prior to use. For assistance consult with ErgonArmor.EETYfetyMixes 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.ntilation | | | | |
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TYPICAL PHYSICAL PROPERTIES

| Property | Typical Value | |
|--|---|--|
| Color | Tan or white | |
| Density, ASTM C138 | 11.9 lb/gallon (1,426 kg/m ³) | |
| Hardness, ASTM D 2240 type A 73°F (23°C) | 48 | |
| Solids, mixed material | 100% | |
| Flexibility, ASTM D522 method B, 73°F (23°C) 1/16″ (750 μm) mandrel | Pass | |
| Tensile, ASTM D412 | >200 psi (1.37 MPa) | |
| Elongation, ASTM D412 | >100% | |
| Water absorption, ASTM D570 7-day 73°F (23°C) | 0.21% | |
| Film shrinkage %, ASTM D 2240 7-day 73°F (23°C) | 0% | |
| Service temperature, stand-alone Service temperature, behind brick | 185°F (85°C) 240°F (115°C) | |

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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