

SELECTION & SPECIFICATION DATA

Type	Urethane asphalt membrane
Description	Self-leveling, 2-component, elastomeric, urethane-modified asphalt membrane. Applied at a nominal 1/8-inch (3 mm) thickness. Trowelable Tufchem II Membrane and sprayable Tufchem II Spray Grades are also available.
Uses	<ul style="list-style-type: none"> • Protect concrete and steel against chemical attack • Suitable for most acids, alkalis, and salt solutions • Membrane under acid-resistant brick, refractory, polymer concrete, or gunite • Field repair rubber membrane in tanks and absorbers
Features	<ul style="list-style-type: none"> • Two-component • Shelf stable • Self levels for quick application to floors • Very good abrasion resistance • Retains flexibility down to -40°F (-40°C) • Excellent water vapor barrier • Bridges hairline cracks in concrete • Resistant to fluorides and hydrofluoric acid
Limitations	<ul style="list-style-type: none"> • Not for use on vertical surfaces • Not for use beyond its chemical resistance capabilities. Not suitable for oxidizing acids. Consult ErgonArmor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications	CES-326 and CES-334 Tufchem II Membrane installation on concrete and steel substrates
Installation Conditions	Tufchem II SL Membrane is formulated for ideal handling at 70°F (21°C). 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.
Mixing & Application	<p>Mix Part A Base for 1 minute to loosen. Continue mixing while slowly emptying the can of hardener into the center vortex, and mix thoroughly for 3 minutes, moving the mix blade up, down and around the pail to catch all the edges. Mixed material is heavy-bodied.</p> <p>Use Penntrowel™ Epoxy Primer or Novocoat™ SC1100 Primer/Sealer on concrete under Tufchem II SL Membrane to minimize outgassing and pinholes. Use Penguard™ HP Epoxy Primer on steel to hold blast profile prior to applying Tufchem II SL Membrane.</p> <p>Pour mixed material onto substrate and spread with a notched trowel. Warm material will level on its own. Cool material may require smoothing with a flat trowel.</p> <p>Choose Tufchem II Membrane Regular Grade for vertical surfaces or consider Tufchem II Membrane Spray Grade for larger vertical or horizontal areas.</p>
Work Life	60-75 minutes
Cleanup	Mineral spirits

CURE TIME

Temperature	Initial Set	Full Cure
70°F (21°C)	75 minutes	24-48 hours

SAFETY

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 circulation during and after application until the material has cured when used in enclosed areas.

PACKAGING, ESTIMATING & HANDLING

Product	Code	Packaging
Tufchem II SL Membrane Kit	29471	4-gallon (15.1 L) unit
Tufchem II SL Membrane Part A only	29472	3.94-gallon (14.9 L) pail
Urethane Asphalt Hardener (packaged for air shipment)	29488-499	499-gram can
Theoretical Coverage	50 ft ² (4.7 m ²)/4-gal unit at 125 mils (3.2 mm) 70 ft ² (6.6 m ²)/4-gal unit at 90 mils (2.4 mm) 100 ft ² (9.6 m ²)/4-gal unit at 62 mils (1.6 mm)	
Storage & Shelf Life	<p>Maintain products in original packaging and sealed until ready for use. Estimated shelf life of components is 18-24 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.</p> <p>If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.</p>	

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Black
Density	8.5 lb/gallon (1,019 kg/m ³)
Elongation, ASTM D412	>165%
Tensile strength, ASTM D412	>175 psi (1.2 MPa)
Shear strength, ASTM D1002	>100 psi (0.68 MPa)
Mix ratio by weight, component A: component B	31:1
Service temperature range	
- if directly exposed	-40°F (-40°C) to 170°F (77°C)
- behind masonry/concrete	-40°F (-40°C) to 220°F (104°C)

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