

# CE-196 Page 1 of 2 Tufchem<sup>™</sup> II Membrane

application until the material has cured when

used in enclosed areas.

**INSTALLATION GUIDANCE** 

### **SELECTION & SPECIFICATION DATA**

SELECTION & SELCIFICATION DATA			
Туре	Urethane asphalt membrane	Reference Specifications	CES-326 and CES-334 Tufchem II Membrane installation on concrete and steel substrates
Description Uses	<ul> <li>Tufchem II is a 2-component elastomeric urethane asphalt membrane. It is applied at a nominal 1/8" (3 mm) thickness to protect concrete and steel substrates.</li> <li>Use as a primary corrosion barrier to protect concrete and steel substrates from chemical attack in municipal waste water containment</li> </ul>	Installation Conditions	Tufchem II 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.
	<ul> <li>environments</li> <li>Install as a membrane under acid-resistant brick, refractories, polymer concretes and gunites.</li> <li>Use as a component layer in vessel linings under acid brick.</li> <li>Use to do field repairs to rubber membranes in tanks and absorbers.</li> </ul>	Mixing/Use	Tufchem II Membrane is a 2-component material. After opening the lid, set aside the hardener component and mix Part A for 1 minute to loosen. Slowly add Part B Hardener into the center vortex and mix thoroughly for 3 minutes. Do not undermix. Make sure to move the mix blade while mixing to catch all edges around the pail perimeter. Mixed material will have a heavy bodied consistency that is suitable for verticals or on floors. Apply by flat trowel in 2
Features	<ul> <li>Two-component apply by trowel at thicknesses of 80 -125 mils (2-3 mm)</li> <li>Remains elastomeric within a temperature range a slow as -40°F(-40°C).</li> <li>Suitable for acids, alkalines, and salt solutions</li> <li>Very good abrasion resistance when cured.</li> <li>Shelf life stable.</li> </ul>		separate layers to insure a pinhole free lining. Each pass should be ½ of the specified lining thickness. Wet Tufchem II Membrane does not bond well to cured membrane and care must be taken to observe intercoat adhesion procedures. Tufchem II should be applied over Penntrowel™ Epoxy Primer when used on concrete to minimize outgassing and potential for pinholes. When applying over steel, Pennguard™ HP
Limitations	<ul> <li>Not for use beyond its chemical resistance capabilities, not suitable for oxidizing acids. Consult ErgonArmor with specific questions.</li> </ul>		Primer is suggested to hold the blast profile and prevent re-rusting of the prepared substrate. For very large surface areas consider the use of CE-228Tufchem II Spray Grade by spray. For applications on flat surfaces, Ce-197 Tufchem II SL (Self Leveling) Membrane can speed up application time.
		Work Life	45-60 minutes
		Cleanup	Mineral spirits
		<u>CURE TIME</u>	
		Temperature	Initial Set Full Cure
		70°F (21°C)	4-6 hours 5-7 days
		<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 circulation during and after application until the material has cured when



Code

19683

21924

29488-341

**PACKAGING & ESTIMATING** 

Product

Part A only

Tufchem II Membrane

Tufchem II Membrane

Urethane Asphalt

Theoretical

Coverage

Storage &

Shelf Life

Hardener (packaged for air shipment)

## CE-196 Page 2 of 2 Tufchem<sup>™</sup> II Membrane

## **TYPICAL PHYSICAL PROPERTIES**

Property	Typical Value
Color	Black
Density	8.5 lb/US gallon (1019 kg/m <sup>3</sup> )
Elongation, ASTM D412	>125%
Tensile strength, ASTM D412	>200 psi (1.38 MPa)
Bond to carbon steel, ASTM D412	>125 psi (0.87 MPa)
Permeance, ASTM C96, method E	0.24 perms
Mix ratio by weight, component A: component B	45:1
Service temperature range - if directly exposed - behind masonry/concrete	-40°F(-40°C) to 170°F (77°C) -40°F(-40°C) to 200°F (93°C)

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.

Packaging

4 gallon unit

4 gallon pail

341 gram can

50 sf/per 4 gal unit at 125 mils (1/8" or 3.2 mm)

75 sf per 4 gal unit at 90 mils (3/32" or 2.4 mm)

100 sf per 4 gal unit at 60 mils (1/16" or 1.6 mm)

sealed until ready for use. Estimated shelf life of

components is 18-24 months when stored in a

Maintain products in original packaging and

#### Rev 01/2021

#### 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