

CE-295
10/18 Supersedes 09/13

FURALAC™ MEMBRANE

DESCRIPTION

Furalac Membrane is a multi layer mat reinforced furan resin based laminate lining system that can be applied onto concrete, FRP, or steel substrates. It has excellent chemical resistance to a wide range of aggressive acids, caustics, and solvents. The service temperature and chemical resistance of this membrane/lining make it suitable for consideration in applications exceeding the limitations of epoxy, polyester and vinyl ester systems. Depending upon the chemical service to which the membrane will be exposed, different mat reinforcements can be used. It is typically installed at a nominal 1/8" thickness. **Consult Corrosion Engineering specification CES-295 for complete installation details.**

AREAS OF USE

- Solvent containment applications
- Secondary containment areas
- Trenches, sumps, pits
- Chemical transfer stations
- Tall oil reactors and Black liquor tanks
- Process vessels
- Membrane under chemical resistant masonry linings
- Chemical process floor areas
- Spent acid storage tanks

OUTSTANDING FEATURES

- Excellent range of chemical resistance including organic solvents.
- Fast cure for quick turnaround work.
- System includes an elastomeric basecoat to relieve thermal stresses between the substrate and the reinforced membrane.
- Lining may be applied to different substrates - concrete, steel, FRP.
- For exposures to hydrofluoric acid, fluoride salts or hot caustics, synthetic reinforcements are to be substituted for fiberglass reinforcing mat / veil.
- Furalac Membrane reinforced thermoset lining exhibits a low degree of permeability.

TYPICAL PHYSICAL PROPERTIES

| PROPERTY | FURALAC Membrane |
|--|--------------------------------|
| Shore "D" Hardness | >80 |
| Color | Black |
| Coefficient of Thermal Expansion | 1.1×10^{-5} /in/in/°F |
| Flexural Strength psi | 3,200 |
| Service Temperature Limit depending on chemical exposure & substrate | 250°F |

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

| PRODUCT | CODE | PACKAGING | COVERAGE |
|--|----------------|--|--|
| PENNTROWEL® Epoxy Primer | 19676 | 4 x1 gal units/case | 175 SF/gal on concrete @ 9 mils WFT 425 SF/gal on steel @ 4 mils WFT |
| TUFCHEM® II Membrane | 19683 | 4 gal (36 lb) unit | 100 SF/unit @ 60 mils WFT |
| FURALAC Membrane Resin FURALAC Membrane Resin | 24343 24344 | 5 gal (50 lb) pail 55 gal (500 lb) drum | Mix Ratio of Resin to Hardener by volume is 1 gallon to ½ cup. A 1 gallon can of Hardener contains 16 cups, and is sufficient to catalyze 32 gallons (6 x 5 gal) pails of Resin. 1 mixed gallon of Resin/Hardener will cover 11 SF when used as a saturant for the 2 layers of 1.5 oz. glass mat, and 1 layer of 1 oz. mat. |
| FURALAC Membrane Hardener | 24345 | 4 x 1 gal (10 lb) cans/cs | |
| 1.5 oz chopped strand glass mat | 19640 | 50" x 88 yd roll (99 lb) | 1056 SF/roll |
| 1.0 oz chopped strand glass mat | 19639 | 50" x 125 yd roll (95lb) | 1500 SF/roll |

SAFETY PRECAUTIONS / DISCLAIMER

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 [material safety data sheets](#) before using. While all 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.

