



FURAGLAS 27 MEMBRANE

The STEBBINS Engineering and Manufacturing Company
Watertown, NY USA
<http://www.StebbinsEng.com>

PRODUCT INFORMATION

DESCRIPTION

STEBBINS' Furaglas 27 Membrane is a wet lay-up fiberglass reinforced furan. It is used primarily as a membrane barrier behind chemical resistant masonry linings in a variety of chemical process and pressure vessels.

Furaglas 27 Membrane exhibits excellent resistance to a broad spectrum of chemicals. It is resistant to most acids and organics with the exception of strong oxidizing acids.

TYPICAL PHYSICAL PROPERTIES

Physical State	Solid
Composition	Fiberglass Reinforced Furan (FRF)
Color	Black
Density	75.5 lb./ft ³ (1209 kg/m ³)
Coverage FRF (3 Mat/1 C-Veil)	1.10 lb./ft. ² (5.37 kg/m ²)
Tensile Strength ASTM D-638	5000 psi (34.5 MPa)
Modulus of Elasticity ASTM D-638	1.0 x 10 ⁶ psi (6894 MPa)
Coefficient of Thermal Expansion	13.0 x 10 ⁻⁶ in/in/°F (23.4 mm/mm/°C)
Thermal Conductivity (K)	4.0 Btu x in (0.0006 KW x m)
Barcol Hardness ASTM D-2583	40 minimum
Glass Content	25 ± 2 wt. %
Glass Transition Temperature (Tg)	≤ 350°F (176.6°C)

COMPONENT PACKAGING

Furaglas 27 membrane is supplied as four (4) separately packaged components:

Material	Container	Weight
AR-20-QC Liquid Resin:	55-gallon (208.2 L) Steel drum or 5-gallon (18.9 L) pail	550 lb. (250.0 kg) 50 lb. (23.0 kg)
Furaglas Catalyst:	5-gallon (18.9 L) plastic pail 1-gallon (3.78 L) plastic jug	37.0 lb. (16.8 kg) 7.5 lb. (3.4 kg)
1-1/2 oz. Fiberglass mat	Roll form by square ft.	As Required
Fiberglass C-Veil	Roll form by square ft.	As Required

APPLICATION

PREPARATION: Steel surfaces must be prepared in accordance with STEBBINS' CS-75 Data Sheet which includes sandblasting to an SSPC No. 10, (NACE No. 2) "near white" metal surface. Concrete surfaces must be prepared in accordance with STEBBINS' CS-76 Data Sheet.

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APPLICATION: Over the properly prepared surface, STEBBINS first applies its proprietary primer - crucial to the development of good bonding between the surface and the finished membrane. STEBBINS proprietary primer system for Furaglas 27 meets these requirements. The bond strength of Furaglas 27 over a properly prepared and primed surface exceeds the tear strength of the membrane itself. STEBBINS then applies the Furaglas 27 Membrane.

WORKING AND SETTING TIMES (approximate)

TEMPERATURE	65°F (10°C)	70°F (21°C)	80°F (38°C)
Working Time	30-40 minutes	25-35 minutes	15-25 minutes
Setting Time	2 – 3 hours		
Cure Time	24 hours		

The working and setting times of Furaglas 27 Membrane should not be changed by varying the resin and catalyst proportions, without Watertown Technical service approval. Working and setting times are best controlled by controlling the temperature of the membrane components and the work environment. Furaglas 27 Membrane should not be applied at temperatures below 50°F (10°C).

STORAGE

Furaglas 27 components must be stored in a cool, dry area until used to obtain the optimum working characteristics. Do not store in direct sunlight.

SAFETY PRECAUTIONS/DISCLAIMER

Mixes and applications of this product present a number of hazards. The purchaser and user must read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

All data contained in this Product Information sheet are averaged results of ASTM tests on laboratory prepared samples. Reasonable variations can be expected. The data should not be used for specification purposes.

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