



SULFURGLAS

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

PRODUCT INFORMATION

DESCRIPTION

SULFURGLAS is a wet lay-up fiberglass reinforced epoxy membrane. It is used primarily as a protective membrane behind chemical resistant masonry linings in a variety of chemical process vessels.

SULFURGLAS has excellent resistance to a broad spectrum of chemicals. It is especially useful in Chlorine Drying Towers where resistance to concentrated sulfuric acid is required. SULFURGLAS is also resistant to 50% sodium hydroxide making it the membrane of choice where both strong acid and strong caustic are present.

FOUR COMPONENT PRODUCT

SULFURGLAS is supplied as four (4) separately packaged components:

Material	Container	Weight
SULFURGLAS Resin	5-gallon (18.9 liter) pail	35.0 lb. (16.0 kg)
SULFURGLAS Hardener	1-gallon (3.78 liter) snap lid container	5.0 lb. (2.0 kg)
1-1/2 oz. Fiberglass mat	Roll form by square ft.	As Required
Fiberglass C-Veil	Roll form by square ft.	As Required

The total net weight of one (1) unit is 40 pounds (18 kg).

TYPICAL PHYSICAL PROPERTIES

Physical State	Solid
Composition	Fiberglass Reinforced Epoxy (FRE)
Appearance	Clear
Gardner Color	≤ 5
Density	73.3 lb./ft ³ (1174 kg/m ³)
Coverage FRP (3 Mat/1 C-Veil)	0.98 lb./ft. ² (4.78 kg/m ²)
Glass Transition Temperature (T _g)	≤ 200°F (93.3C)
Barcol Hardness	30 minimum
Glass Content	25 ± 2 wt. %

WORKING TIMES (approximate)

TEMPERATURE	65°F (18°C)	70°F (21°C)	80°F (27°C)
Working Time	30 minutes	25 minutes	15 minutes

The prepared resin will remain usable for about 15 minutes at 75°F (24°C). **DO NOT CHANGE THE PROPORTION OF HARDENER TO RESIN.** Changing the amount of hardener added to the resin will drastically alter the performance of the SULFURGLAS membrane. Very high or very low working temperatures must be avoided.

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SURFACE PREPARATION

Steel surfaces must be prepared in accordance with STEBBINS' **CS-75 Data Sheet** which includes sandblasting to an SSPC No. 10 or NACE 2 "near white" metal surface.

Concrete surfaces must be prepared in accordance with STEBBINS' **CS-76 Data Sheet**.

APPLICATION

SULFURGLAS linings are standardized on the basis of glass mat weighing 1-1/2 oz./sq.ft.. and varying in thickness depending upon the number of layers of glass mat applied.

The standard SULFURGLAS membrane system will consist of three (3) 1-1/2 oz. resin saturated glass mats and a resin saturated C-Veil, outer layer.

STORAGE

Do not store the resin and hardener in direct sunlight. Store in a cool dry area. Keep the containers dry and the lids closed tight.

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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