



Fluoropolymer Linings and Coatings

Technical Data

FluoroGrip® – Elastomer SB-100

Industrial Uses

Type

FluoroGrip® Elastomer SB-100 is a two-component liquid fluoroelastomer sealant and adhesive formulated for a wide range chemical and temperature resistance. FluoroGrip® Elastomer SB-100 systems are formulated for specific service requirements while retaining chemical, temperature, and elastomeric and other physical properties.

Uses

As an elastomeric, highly chemical and temperature resistant brushable sealant for sealing edges of FluoroGrip® fluoropolymer linings, films and coating as well as tie-ins to other compatible materials and substrates.

Packaging

See “Mixing Ratio” below for SB-100 packaging

Coverage

Theoretical Coverage (sq. ft. / mil / gallon): 247sf

Theoretical Coverage (cubic inches / gallon): 36

SB-100 will cover approximately 600 lineal feet of seam at 1/2" wide by 4 mils DFT per gallon. Coverage will vary depending on condition of surface and application method.

Application Data

Mixing Ratio

The mixing ratio is 50 to 1 by weight. This means that 1-gram of Accelerator #4 should be used for every 50 grams of base material. Appropriate size Accelerator #4 bottles are provided, so no measurement is required if the entire container of base material will be used. Appropriate sizes are shown below:

SB-100	Accelerator #4
Half Pint	5g, (6ml)
One Quart	20g, (25ml)
One Gallon	77g, (98ml)
Five Gallons	386g, (491ml)

Technical Data

Physical Properties

Color: Black

Viscosity (cps): 600

Weight Solid (%): 30.0

Volume Non-Volatile (%), ASTM D-2697: 15.4

Density (lb./gallon): 8.5

Specific Gravity (Water=1): 1.02

Tensile Strength (psi), ASTM D-2370 (Post Cure): 1000

Elongation (%), ASTM D-2370 (Post Cure): 250

Operating Temperature (Dry): -40°F to 400°F,
with excursions to 500°F

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Mixing

Product may settle during storage. Before adding Accelerator #4, stir the product with a broad spatula or paint stick. Scrape the bottom and sides of the can thoroughly, and feel for any undispersed, thicker material clinging to the spatula. Slowly add Accelerator #4 to the base material and mix thoroughly. Avoid any mixing method, which introduces substantial amounts of air into the liquid. After adding the accelerator, put the lid on the container and do not disturb for 10 minutes. This will allow trapped air to escape prior to application. It is important to keep the lid on the container when the material is not being actively applied. Air exposure allows evaporation of the solvent and increases the viscosity of the material.

Pot Life

Once mixed, the liquid has a useful life of approximately 8 hours at 75°F (24°C).

Application Methods

Brushing, dipping, rolling, spraying.

Substrate Preparation

A clean, dry surface is essential for maximum adhesion. Grit-blasting and degreasing with oil-free solvents is recommended.

Drying

Surface will dry very quickly (generally 20 min. or less), but thick applications will trap solvent beneath the surface. Make sure all solvent has escaped before heating product.

Curing

Thin applications will cure in approximately 24 hours at 75°F. Faster cures are possible by heating solvent free coatings for 20 minutes at 300°F (149°C). Thick applications or low temperatures may increase cure time.

Successive Coats

Allow for solvent evaporation prior to making multiple coats, or blisters may result. Product adheres well to itself.

Shelf Life

12 months from the Date of Certification for unopened containers.

Clean Up

MEK, MIBK and Acetone can be used.

Safety

FLAMMABLE LIQUID – Use in accordance with the Material Safety Data Sheet.

Note

Refer to FluoroGrip® installation manual and instruction guide for use with FluoroGrip® membranes and lining systems.

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