



81-84 Foster Adhesive Sealant

Colour

Part A – Cream
Part B – Brown

Application Consistency

Trowel or Brush

Average Weight/ U.S. Gallon (ASTM D 1475)

Part A – 13.5 lbs. (1.45 kg/l)
Part B – 10.3 lbs. (1.21 kg/l)
Mixed (A&B) 13.2 lbs. (1.42 kg/l)

Average Non-Volatile (ASTM D 1644)

97% by volume (mixed)
98% by weight (mixed)

Coverage Range (FSTM 72)

(Varies with type of insulation)
0.080 in. (2.0 mm) to 0.006 in. (0.16 mm)
20 sq. ft. to 250 sq. ft. per gallon (0.49 to 6.14 m²/Liter)

Mixing Ratio

8 Parts A: 1 Part B (by volume)
11 Parts A: 1 Part B (by weight)

Pot Life (FSTM 91A)

1 – 2 hours at 77°F (25°C)

Drying/ Curing Time (ASTM D 1640)

Set to touch: 8 hrs at 77°F (25°C)
Dry through: 24 hrs at 77°F (25°C)
Maximum strength: 7 days at 77°F (25°C)

Service Temperature Limits

Urethane Foam
-250°F to 200°F (-157°C to 93°C)
Cellular Glass
-100°F to 200°F (-73°C to 93°C)

Wet Flammability (ASTM D 3278)

(part A, B or Blended)
Flash point: over 200°F (93°C)

Foster Adhesive Sealant is a two-component, high strength thermosetting urethane adhesive containing no flammable solvents. It is designed to bond various types of low- temperature insulation to themselves and to metal and masonry substrates. After curing, it forms a strong, yet flexible bond capable of withstanding thermal shock and mechanical impact.

Adhesive Sealant can be used as both an attachment adhesive and joint sealant in low temperature installations using cellular glass, polystyrene, phenolic foam, or rigid board stock polyurethane foam insulation. It contains no asphalt and can be top coated with solvent base product without bleed-through.

Adhesive Sealant contains no asbestos, lead, mercury, or mercury compounds.

Limitations

Store and apply between 40°F (4°C) and 100°F (38°C).

Allow 48 hours curing time at 73°F (23°C) minimum before placing in service.

Pot life will be longer at lower temperatures, shorter at higher temperatures.

Part B is sensitive to moisture and humidity. Keep container tightly sealed when not in use.

Do not heat Part A, Part B, or the mixed material to above 100°F (38°C).

FSTM: Foster Standard Test Method

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FOSTER ADHESIVE SEALANT 81-84

Material Preparation

Do not thin. Stirring should not be necessary, but if Part A has remained undisturbed for any extended period, stir well. Do not use sticks or paddles which could splinter or otherwise contaminate the product. Containers must be kept closed and in dry storage when not in use. Blend only the amount of material which can be applied in 1 hour. Mixing should be continued for 2 minutes maximum with a suitable air or electric mixer operating at low speed, until the 81-84 is smooth and complete homogeneous. Do not over mix. Do not heat Part A, Part B, or the mixed material to above 100°F (38°C). Exposure to vapours of heated product may be harmful. Heated vapours are potential respiratory and skin sensitizers, and possible eye irritants. Provide adequate ventilation in enclosed areas.

Application

Apply only to clean dry surfaces. 81-84 may be applied to either or both surfaces at the recommended coverage rate. Surfaces must be bonded within one hour after application of the adhesive. On rough surfaces, a thicker application of 81-84 is required as necessary to assure complete contact between the insulation and the substrate. A notched trowel is suggested.

Suggested coverages: Cellular glass block –20 to 30 sq. ft./gallon (0.49 to 0.74 m²/liter). Polyurethane, polystyrene, and polyisocyanate rigid board stock – 150 to 250 sq. ft./gallon (3.68 to 6.14 m²/liter).

Clean-Up

Before adhesive cures, clean tools and equipment with chlorinated solvent (non-flammable) or mineral spirits (flammable).

For industrial use only.

This data sheet is based on specifications, data and test results available to us at the time of publication. In the course of time changes herein may (have) take(n) place. No guarantee as to completeness, accuracy or results is either expressed or implied. The suitability to an intended use is the responsibility of the user. As material-choice, method of application and site conditions are beyond our control, we accept no liability for direct or consequential damages; our only obligation being to resupply ex our stores any material that is proved to be defective within the published* shelf life.

* If not applicable, within 6 months from date of supply.