



PROPERTIES

COLOR:

Part A- Cream
Part B- Brown

APPLICATION CONSISTENCY:

Trowel or Brush

AVERAGE WEIGHT/U.S. GALLON (ASTM D 1475):

Part A – 11.4 Lbs. (1.37 Kg/l)
Part B - 10.3 Lbs. (1.23 Kg/l)
Mixed (A&B) 11.3 Lbs. (1.35 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 0.016 in. (0.41 mm)
20 sq. ft. to 100 sq. ft. per gallon
(0.49 to 2.45 m²/liter)

MIXING RATIO:

8 Parts A: 1 Part B (By Volume)
9 Parts A: 1 Part B (By Weight)

POT LIFE (FSTM 91A):

1-2 hours @ 77° F (25°C)

DRYING/CURING TIME (ASTM D 1640):

Set to Touch: 8 hours @ 77° F (25° C)
Dry Through: 24 hours @ 77° F (25° C)
Maximum Strength: 7 Days @ 77° F (25° C)

SERVICE TEMPERATURE LIMITS:

As a joint sealant/adhesive with Urethane Foam
-310°F to 200°F (-190°C to 93°C)
Urethane Foam to Metal
-260°F to 200°F (-162°C to 93°C)
Cellular Glass Insulation
-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)

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FOSTER ADHESIVE/SEALANT

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, or rigid board stock polyurethane foam insulations. It contains no asphalt and can be top coated with solvent base products without bleed-through.

Adhesive/Sealant meets requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants.
VOC 81-84 Part A: 17 g/l, less water and exempt solvents.
VOC 81-84 Part B: 0 g/l, less water and exempt solvents.

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).

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APPLICATION GUIDE FOR 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 3 minutes maximum with a suitable air or electric mixer operating at low speed, until the 81-84 is smooth and completely homogeneous. Do not over mix. Do not heat Part A, Part B, or the mixed material to above 100°F (38°C). Exposure to vapors of heated product may be harmful. Heated vapors are potential respiratory and skin sensitizers, and possible eye irritants. Provide adequate ventilation in enclosed areas.

APPLICATION

Apply only to clean dry surfaces. Adhesive/Sealant 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.

Note: Pressurized piping made from copper and aluminum alloys may be susceptible to under insulation corrosion when in direct contact with many materials. When used as a joint sealant direct contact between pressurized pipes made from these metals and the sealant should be prevented.

Suggested coverages: Cellular glass block - 20 to 30 sq. ft./gallon (0.49 to 0.74 m²/l). Polyurethane, polystyrene, and polyisocyanate rigid board stock – 50-100 sq. ft./gallon (1.22 to 2.45 m²/liter).

CLEAN-UP

Before adhesive cures, clean tools and equipment with chlorinated solvent (non-flammable) or mineral spirits (flammable). Dried 81-84 Adhesive/Sealant is extremely difficult to remove.

CUSTOMER SERVICE: 800-832-9002

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**For professional use only. Keep out of reach of children.
Consult Material Safety Data Sheet and container label for further information.**