



## PROPERTIES

### COLOR:

Part A- Cream  
Part B- Brown

### APPLICATION CONSISTENCY:

Trowel, Putty Knife

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

Part A – 12.1 Lbs. (1.45 Kg/l)  
Part B - 10.3 Lbs. (1.23 Kg/l)  
Mixed (A&B) 11.9 Lbs. (1.43 Kg/l)

### AVERAGE NON-VOLATILE (ASTM D 2369):

97% By Volume (Mixed)  
98% By Weight (Mixed)

### COVERAGE RANGE:

(Varies with type of insulation and substrates)  
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 m<sup>2</sup>/liter)

### MIXING RATIO:

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

### PACKAGING:

May be purchased in a single kit with 3 gallons Part A and 0.4 gallon Part B in one pail. This kit is intended to be fully mixed or portioned off per above mix ratio.

OR Part A and Part B are packaged separately: 4 gallons Part A in a pail and 0.5 gallons Part B sold in jugs with six jugs per case. 1 0.5 gallon jug Part B is mixed with 1 4 gallon pail of Part A or portion off per the above mix ratio.

See application guide for more information.

### POT LIFE (FSTM 91A):

1-2 hours @ 77° F (25°C)

### CURING TIME:

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

### WET FLAMMABILITY (Part A, B or Blended)

Flash Point: over 200° F (93° C)

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**Manufactured at an ISO 9001 Quality System Certified Facility**

Visit us on the web at [fosterproducts.com](http://fosterproducts.com)

## FOSTER NON-HALOGENATED ADHESIVE/SEALANT

**FOSTER 81-84NH Adhesive/Sealant** is a two-component, high strength thermosetting urethane adhesive containing no flammable solvents or halide-containing materials. It is designed to bond various types of low-temperature insulation to themselves, as well as to metal and masonry substrates including stainless steel. After curing, it forms a strong, yet flexible bond capable of withstanding thermal shock and mechanical impact.

**81-84NH Adhesive/Sealant** can be used as both an attachment adhesive and joint sealant in low temperature installations using cellular glass, polystyrene, phenolic or PUR and PIR foam insulations. It contains no asphalt and can be top-coated with solvent based products without bleed-through.

**81-84NH Adhesive/Sealant** meets requirements for LEED 2009 IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants.

VOC 81-84NH Part A: 20 g/l, less water and exempt solvent.  
VOC 81-84 Part B: 0 g/l, less water and exempt solvents.

**81-84NH Adhesive/Sealant** contains no asbestos, lead, mercury, or mercury compounds.

### SERVICE TEMPERATURE LIMITS:

#### PIR / Polyurethane Foam Insulations

As a joint sealant/adhesive  
-310°F to 200°F (-190°C to 93°C)  
PIR/Urethane Foam to Metal  
-265°F to 200°F (-165°C to 93°C)

#### Cellular Glass Insulation

As a joint sealant/adhesive  
-100°F to 200°F (-73°C to 93°C)  
Cellular Glass to Stainless Steel  
-155°F to 200°F (-105°C to 93°C)

### 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.

**H.B. Fuller Construction Products Inc.**

1105 South Frontenac Street ○ Aurora, IL 60504 ○ 800-832-9002 ○ fax 800-942-6856

# APPLICATION GUIDE FOR FOSTER ADHESIVE/SEALANT 81-84NH

## 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 one hour. Mixing should be continued for three minutes maximum with a suitable air or electric mixer operating at low speed, until the 81-84NH is smooth and completely homogeneous. Do not over mix. Do not heat Part A, Part B, or the mixed material. 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.

The 3.4 gallon (12.8 liter) kit is packaged to allow for the full 48 oz (1.4 liter) jug of Part B to be mixed directly in the pail with 3 gallons (11.4 liters) of Part A.

If Part A and Part B are ordered in separate packaging one 0.5 gallon (1.9 liter) jug of Part B is to be mixed with one 4 gallon (15.1 liter) pail of Part A.

Alternately Part A and Part B may be portioned off and mixed in a separate container in quantities as needed for a one hour working period. When portioning off maintain the proper mix ratio:

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

Replace the cap on unused Part B immediately after use to prevent moisture contamination.

## APPLICATION

Apply only to clean dry surfaces. Adhesive/Sealant 81-84NH 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 81-84NH 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 m<sup>2</sup>/l). Polyurethane, polystyrene, and polyisocyanurate rigid board stock – 50-100 sq. ft./gallon (1.22 to 2.45 m<sup>2</sup>/liter).

## CLEAN-UP

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

## CUSTOMER SERVICE: 800-832-9002

IMPORTANT: H.B. Fuller Construction Products Inc. warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture. WE MAKE NO OTHER WARRANTIES AND EXPRESSLY DISCLAIM ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. OUR ACCEPTANCE OF ANY ORDERS FOR THE PRODUCT IS EXPRESSLY CONDITIONAL UPON PURCHASER'S ASSENT TO THE TERMS ON THE APPLICABLE INVOICE.

ADEQUATE TESTS: The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. The warranted shelf life of our products is twelve months from date of shipment to the original purchaser or as otherwise provided on the certificate of analysis.

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