



## PROPERTIES

**COLOR:**  
Off-white

**APPLICATION CONSISTENCY:**  
Trowel

**WEIGHT PER U.S.GALLON: (ASTM D 1475):**  
13.2 lbs. (1.58 kg/l)

**APPLICATION NON-VOLATILE (ASTM D 1644):**  
66% by volume (80% by weight)

**COVERAGE RANGE (FSTM 72):**  
(Subject to type of surfaces and nature of material being attached)  
25 to 40 sq.ft./gal.  
0.063 in. to 0.040 in. wet thickness.  
(0.6 to 1.0 m<sup>2</sup>/l at 1.6 to 1.0 mm wet)

**BONDING TIME RANGE (FSTM 66):**  
2 to 10 minutes

**SERVICE TEMPERATURE LIMITS (FSTM 70):**  
(Temperature at coated surface)  
Minus 75°F to 300°F (-59°C to 149°C)

**WET FLAMMABILITY (ASTM D 3278):**  
Flash Point 110°F (43°C)

**SURFACE BURNING CHARACTERISTICS (ASTM E 162):**  
5 on 1/4 in. (0.63 cm) inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

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## FOSTER FIRE RESISTIVE ADHESIVE

**FOSTER Fire Resistive Adhesive** is a superior adhesive for cementing thermal insulation to all structural surfaces. It is quick-setting, with good specific adhesion to iron, steel, aluminum, and most thermal insulations. Can be used without mechanical fastening for marine hull insulation.

**Fire Resistive Adhesive** is the preferred adhesive for use with rigid polyurethane insulations. It can be used as a fabricating adhesive in making fittings with polyurethane insulation, and as an adhesive to attach insulation to equipment surfaces. Bonds of polyurethane to itself made with 81-33 are stronger than the base insulation.

**Fire Resistive Adhesive** withstands continuous surface temperatures up to 300°F (149°C), but it has been subjected to higher temperatures for short intervals with good results. Its excellent resistance to water and high humidity makes it a good sealing compound for joints and seams of insulation on cold water piping and equipment.

**Fire Resistive Adhesive** meets the requirements of Military Specification MIL-A-3316C, Class 3, Grade A.

**Fire Resistive Adhesive** contains no asbestos, lead, mercury, or mercury compounds.

### LIMITATIONS:

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

Always test plastic materials for compatibility when using a solvent base product.

Make certain this product is completely dry and the area free from solvent odor if food is involved.

Galvanized metal must be primed with Foster 40-26.

If used between impermeable surfaces, drying time will be extended.

# APPLICATION GUIDE FOR FIRE RESISTIVE ADHESIVE 81-33

## MATERIAL PREPARATION

Remove paper disc and any skin on surface of adhesive in container. Stir well. DO NOT THIN. Apply only to clean, dry surfaces. Keep container closed when not in use to prevent solvent evaporation.

## APPLICATION

(Galvanized metal must first be treated with Foster Primer 40-26 and allowed to dry.)

**ATTACHMENT ADHESIVE** - Apply with notched trowel at 40 sq. ft./gal. (1.0 m<sup>2</sup>/l).

**JOINT SEALANT/ADHESIVE** - Apply with smooth trowel at 25 sq. ft./gal. (0.6 m<sup>2</sup>/l).

Install insulation applying pressure to assure complete and uniform contact to the surface, twisting the insulation section slightly to break any skin that may have formed on the adhesive surface.

## SQUARE NOTCHED TROWEL

Use a steel trowel with square teeth 1/8 inch wide, 1/8 inch deep and 1/8 inch apart. Trowel with firm pressure leaving ridges of adhesive. Press insulation firmly into place to obtain complete contact. On rough or porous surfaces a thicker application of adhesive will be required in order to assure contact between the insulation and the substrate.

## CLEAN UP

Use a solvent such as chlorinated solvent (non-flammable) or xylene (flammable).



**CUSTOMER SERVICE—800-231-9541 OR 800-338-2975**

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**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 six months from date of shipment to the original purchaser.

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