



## 81-33

## Foster Fire Resistive Adhesive

**Colour**  
Off-White

**Application Consistency**  
Trowel

**Weight per U.S. Gallon (ASTM D 1475)**  
12.94 lbs (1.55 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 ¼ 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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**FSTM:** Foster Standard Test Method

**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, aluminium, 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, as a joint sealer and adhesive in the joints of 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** 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 odour if food is involved.

Galvanized metal must be primed.

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



## FOSTER FIRE RESISTIVE ADHESIVE 81-33

### Material Preparation

Remove 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 a primer 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 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 white spirit or xylene (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. The above tests were carried out in accordance with the above mentioned internal test standards and are indicative. 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.