



90-66

Foster Cryogenic Adhesive

Colour

Black

Application Consistency

Brush, spray, roller

Average weight (DIN 51757)

1.14 kg/l (mixed)

Average Non-Volatile (DIN 53216)

65.9% (mixed)

Coverage Range (FSTM 72)

Subject to type of surface being coated.

Dry Thickness

0.031 to 0.036 in. (0.79 mm to 0.91 mm)

Equivalent Wet Coverage

0.048 in. to 0.056 in. (1.22 mm to 1.42 mm)
3 to 3.5 gal./100 sq. ft. (1.22 to 1.43 l/m²)
on a smooth non-porous surface. Porous or rough surfaces will require higher volume to attain required dry thickness.

Mixing Ratio

1:1 by volume

Bonding Time Range (FSTM 66)

20-60 minutes

Pot Life (FSTM 91A)

(Varies with temperature) 6-9 hours at 77°F (25°C)

Drying Time 73°F (23°C) 50% RH (ASTM D 1640)

Temperatures below 70°F (21°C) and adhesive applications prolonging dry time will require longer cure times.

Through : 48 hours

Full Cure : 2 weeks

Service Temperature Limits (FSTM 70) (Temperature

at coated surface) Minus 320°F to 250°F (-196°C to 121°C)

Water Vapour Permeance

0.0066 Metric Perm at 0.51-0.64 mm dry film thickness.
(ASTM F 1249)

0.0066 Metric Perm at 0.76-0.89 mm dry film thickness.
(ASTM E 398)

Wet Flammability (ASTM D 93)

Flash to boiling point 80°F (26.7°C)

Foster Cryogenic Adhesive is a two part black elastomeric adhesive/coating designed for use in cryogenic and specific chemical resistance applications. It is suitable for application to polyurethane foam and cellular glass in conjunction with aluminium, steel, wood and masonry construction materials.

Foster Cryogenic Adhesive has excellent resistance to moisture, water vapour and other gases. It also has good resistance to most oils, mild solvents, inorganic acids, inorganic bases and salt solutions.

Foster Cryogenic Adhesive is suitable for bonding and sealing lap joints in plywood and metal, and for adhering glass cloth to itself and other surfaces. It can function both as a vapour barrier and adhesive in very low temperature applications where a vapour tight insulation system is required.

Foster Cryogenic Adhesive contains no asbestos, 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.

Not suggested for use between two impermeable surfaces, or as an exposed finished coating.

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FSTM: Foster Standard Test Method



FOSTER CRYOGENIC ADHESIVE 90-66

Material Preparation

Mixing instructions: Add 90-66 Part B into Part A and mix thoroughly for about 5 minutes, using a mechanical stirrer. Do not ship air into the product.

Application

Apply only to clean, dry surfaces. New concrete surfaces must be at least 4 weeks old.

When used as a vapour barrier adhesive, apply at the rate of 1 gal./100 sq. ft. (0.41 l/m²) and allow to cure for 24 hours.

Apply a second coat at 2 gal./100 sq. ft. (0.81 l/m²) and embed the insulation into the adhesive after 20 to 60 minutes open time, but before it skins over, making certain complete contact is made. When used as a vapour barrier and/ or vapour stop, 90-66 may be applied up to 2 gal./100 sq. ft. (0.81 l/m²) on vertical surfaces (21 mils/0.53 mm dry thickness).

Spray – Airless

Foster Cryogenic Adhesive may be applied at up to 50 gallons (189.25 litres) per hour through up to 200 linear feet (61 meters) of ¾ inch i.d. (19.05 mm) fluid hose, using a 30:1 ratio Graco Bulldog Pump, a Graco 207-300 spray gun, a Reverse-A-Clean 205-614 tip assembly, and a 629 ball tip. Other high pressure spray equipment may be used but spray rates may differ.

Clean-Up

Use solvents such as white spirit or mineral spirits (combustible) for cleaning tools and equipment. Completely clean all equipment before pot life expires, and the adhesive sets up.

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.