

**90-66****Product Data Sheet**

PROPERTIES

COLOR: Black

APPLICATION CONSISTENCY: Brush, spray, roller

AVERAGE WEIGHT/U.S. GALLON (ASTM D 1475):
9.6 lbs. (mixed) (1.15 kg/l)

Average non-Volatile (ASTM C 461)
65.0% by volume (mixed)
73.5% by weight (mixed)

COVERAGE RANGE (FSTM 72):
(Subject to type of surface being coated)
Dry Thickness:
0.031 to 0.036in. (0.79mm to 0.91mm)
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 gallonage 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 @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 VAPOR PERMEANCE:
ASTM F-1249: 0.01 Perm (0.0066 Metric Perm) at 0.020-0.025 in. (0.51-0.64 mm) dry film thickness.
ASTM E 398: 0.01 Perm (0.0066 Metric Perm) at 0.030-0.035 in. (0.76-0.89 mm) dry film thickness.

SAFETY:
Wet flammability (ASTM D 93):
Flash point 80°F (26.7°C)
Dry combustibility (FSTM 44):
Combustible

FOSTER CRYOGENIC COATING/ADHESIVE

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

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

Cryogenic Coating/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 vapor barrier and adhesive in very low temperature applications where a water vapor tight insulation system is required. It is an excellent vapor stop material.

Cryogenic Coating/Adhesive contains no lead, 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 odor if food is involved.

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

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Specialty Construction Brands, Inc.

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APPLICATION GUIDE FOR FOSTER CRYOGENIC COATING/ADHESIVE 90-66

MATERIAL PREPARATION

Mixing instructions: Add 90-66 Part B into Part A and mix thoroughly for about 5 minutes, using an air driven mechanical stirrer. Do not whip 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 vapor 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 vapor barrier and/or vapor 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 Coating/Adhesive may be applied at up to 50 gallons (189.25 liters) per hour through up to 200 lineal feet (61 meters) of 3/4 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 chlorinated solvent (non-flammable) or mineral spirits (flammable) for cleaning tools and equipment. Completely clean all equipment before pot life expires, and the adhesive sets up. Dried 90-66 is extremely difficult to remove.



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