



## 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 D 2369)**  
65.0% by volume (mixed)  
73.5% by weight (mixed)

**COVERAGE RANGE:**  
(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/m<sup>2</sup>) 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:** 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:**  
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 203):**  
(Temperature at coated surface)  
Minus 320°F to 180°F (-196°C to 82°C)  
(up to 250°F (121° C) intermittent)

**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.

**SAFETY:**  
Wet flammability (ASTM D 93):  
Flash point 75°F (24°C)  
Dry combustibility (FSTM 44):  
Combustible

## FOSTER CRYOGENIC COATING

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

**Cryogenic Coating** 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** is suitable for bonding and sealing lap joints in plywood and metal, and for lagging 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 coating material.

**Cryogenic Coating** 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 for extended periods of time.

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# APPLICATION GUIDE FOR FOSTER CRYOGENIC COATING 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/m<sup>2</sup>) and allow to cure for 24 hours. Apply a second coat at 2 gal. /100 sq. ft. (0.81 l/m<sup>2</sup>) 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/m<sup>2</sup>) on vertical surfaces (21 mils/0.53 mm dry thickness). Apply in two coats with Mast-a-Fab reinforcing mesh embedded between coats. Reinforcing mesh must be used for cryogenic applications.

## **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. 90-66 when dry is extremely difficult to remove.

## **CUSTOMER SERVICE – (800) 832-9002**

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