

PROPERTIES

COLOR:

Black

APPLICATION CONSISTENCY:

Brush, spray or roller

AVERAGE WEIGHT/U.S. GALLON (ASTM D1475):

Mixed – 9.6 lbs. (1.15 kg/l)

AVERAGE NON-VOLATILE (ASTM D2369):

Mixed – 65.0% by volume (73.5% by weight)

COVERAGE RANGE:

Subject to the type of surface being coated.

3.0 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

Dry Thickness: 0.031 to 0.036 in. (0.79mm to 0.91mm)

Equivalent Wet Coverage: 0.048 in. to 0.056 in. (1.22 mm to 1.42 mm)

MIXING RATIO:

1:1 by volume

BONDING TIME RANGE:

20 – 60 minutes

POT LIFE:

Varies with temperature.
6 – 9 hours at 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:

Temperature at coated surface.

-320°F to 180°F (-196°C to 82°C)

Up to 250°F (121°C) intermittent

WATER VAPOR PERMEANCE (TYPICAL AVERAGE):

ASTM F1249: 0.01 perms (0.0066 metric perms) at 0.020 – 0.025 in. (0.51 – 0.64 mm) dry film thickness tested at 100°F (38°C) and 90% RH

WET FLAMMABILITY (ASTM D93):

Flash point: 75°F (24°C)

COMBUSTIBILITY (DRY):

Combustible

FOSTER® CRYOGENIC COATING

FOSTER® Cryogenic Coating is a two-part, black, elastomeric coating designed for use in cryogenic applications as a vapor stop sealant. It is suitable for application to polyurethane foam, polyisocyanurate (PIR) foam, cellular glass, fibrous glass and aerogel insulations in conjunction with aluminum, steel, wood and masonry construction materials.

Cryogenic Coating has excellent resistance to moisture, water vapor and other gases. It is an excellent vapor stop material for use on cryogenic pipe lines and cryogenic equipment.

Cryogenic Coating is also 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 where at least one substrate is permeable to allow for solvent evaporation.

LIMITATIONS

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

Always test plastic materials for compatibility when using a solvent-based 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. As a vapor stop sealant, ensure the coating is able to fully dry after application. Do not trap solvent from 90-66 between the pipe and impermeable insulation or layers of impermeable insulation.

Not suggested as a joint sealant in impermeable insulation where the solvent will be trapped in the joint.

Not intended 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/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). Apply in two coats with Mast-a-Fab[®] reinforcing mesh embedded between coats. Reinforcing mesh must be used for cryogenic applications.

Apply the 90-66 two to three inches on the pipe and extending up over the insulation surface. Avoid trapping solvent from wet 90-66 between two impermeable surfaces such as the pipe and insulation. Always allow the 90-66 to fully dry before covering with abutting insulation or jacketing.

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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Consult Safety Data Sheet and container label for further information.**