90-61

Product Data Sheet

PROPERTIES

COLOR:
Dark grey

APPLICATION CONSISTENCY:
Brush or trowel

AVERAGE WEIGHT/U.S. GALLON (ASTM D1475):
9.3 lbs./gal. (1.11 kg/l)

AVERAGE NON-VOLATILE (ASTM D2369):
45.0% by volume (57.5% by weight)

COVERAGE RANGE:
Subject to type of surface being coated.

3.5 to 4.0 gal./100 sq. ft. (1.43 to 1.63 l/m^2) on a smooth non-porous surface. Porous or rough surfaces will require higher gallonage to attain required dry thickness

Dry Thickness:
0.025 to 0.028 in. (0.64 mm to 0.71 mm)

Equivalent Wet Coverage:
0.056 in. to 0.064 in. (1.42 mm to 1.63 mm)

DRYING TIME 73°F (23°C) 50% RH:
Temperatures below 70°F (21°C) may require longer dry times.
To Touch: 2 – 3 Hours
Through: 24 Hours

SERVICE TEMPERATURE LIMITS:
Temperature at coated surface.
-320°F to 250°F (-196°C to 121°C)

WATER VAPOR PERMEANCE (TYPICAL AVERAGE):
ASTM F1249: < 0.01 perms (< 0.0066 metric perm) at 0.020 – 0.025 in. (0.51 – 0.64 mm) dry film thickness when tested at 100°F and 90% RH

SAFETY:
Flash point: 115°F (46°C)

FOSTER CRYOLAR™ 1K VAPOR STOP SEALANT

FOSTER Cryolar™ 1K Vapor Stop is a ready-to-use, one-component, vapor stop sealant for use in cryogenic applications. It is specially formulated with select synthetic rubbers to form an elastomeric, vapor barrier film capable of spanning the temperature ranges found in cryogenic applications including LNG, ethylene and ammonia production. It is suitable for application to PUR and PIR foam, cellular glass and other rigid insulations in conjunction with aluminum, steel and masonry construction materials.

Cryolar™ 1K Vapor Stop has excellent resistance to moisture and water vapor, forming a vapor tight seal from the cryogenic pipe surface to the ambient outer insulation surface.

Cryolar™ 1K Vapor Stop is designed for vapor stop applications on insulated cryogenic pipelines and equipment. It can also be used on very low temperature applications to seal seams where a water vapor tight insulation system is required.

Cryolar™ 1K Vapor Stop is manufactured at an ISO 9001 Quality System Certified Facility.

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. Do not use on polystyrene insulation.

Always allow the sealant to dry completely before covering with impermeable materials.

Not suggested as an exposed sealant for extended periods of time.

Use caution when installing peel and stick membranes directly over 90-61. Removing or repositioning will damage the vapor stop surface.

Visit us on the web at www.fosterproducts.com

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APPLICATION GUIDE
FOR
FOSTER® CRYOLAR™ 1K VAPOR STOP
90-61

MATERIAL PREPARATION

Stir well. DO NOT THIN. Apply only to clean, dry surfaces. Keep container closed when not in use to prevent solvent evaporation.

APPLICATION

Apply a tack coat at 2 gal./100 sq. ft. (0.8 l/m^2), 31 mils (0.8 mm) wet film. Embed Foster Mast-a-Fab® reinforcing mesh, being sure to smooth all wrinkles and allow to set. Follow with a finish coat of 90-61 sealant at a rate of 2 gal./100 sq. ft. (0.8 l/m^2), 31 mils (0.8 mm) wet film. Reinforcing mesh must be used for cryogenic applications. Finished dry film shall be 23 mils (0.9 mm) dry film thickness minimum.

When applying over rough or porous surfaces increase the coating volume to fully seal the surface leaving a minimum 31-35 mils (0.8 to 0.9mm) dry film thickness on the surface. Inspect for pinholes and over coat as necessary to complete a pinhole free finish. This may take 50% more material to achieve a full coating film with mesh embedded. Note: The pattern of the mesh may still be visible, but it must be completely covered.

When selecting mesh reinforcement Foster Mast-A-Fab is strongly recommended based on its mesh size, membrane thickness and flexibility. In all cases the mesh must be an open weave mesh allowing it to be embedded into the wet 90-61 sealant and be sufficiently thin such that the dried 90-61 film covers the entire mesh. Too thick a mesh may prevent formation of a full film with the mesh embedded completely.

Always allow the 90-61 to fully dry before covering with abutting insulation or jacketing.

CLEAN UP

Use solvents such as chlorinated solvents (non-flammable) or MEK (flammable) for cleaning tools and equipment. Completely clean all equipment before sealant sets up.

CUSTOMER SERVICE: (800) 832-9002

For professional use only. Keep out of reach of children.

Consult Safety Data Sheet and container label for further information.