



# 90-61

Product Data Sheet

## PROPERTIES

**COLOR:** Dark Grey

**APPLICATION CONSISTENCY:** Brush, Trowel

**AVERAGE WEIGHT/U.S. GALLON (ASTM D 1475):**  
9.3 lbs. (1.11 kg/l)

**Average non-Volatile (ASTM C 461)**  
45.0% by volume  
57.5% by weight

**COVERAGE RANGE (FSTM 72):**  
(Subject to type of surface being coated)

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

Equivalent Wet Coverage:  
0.056 in. to 0.064 in. (1.42 mm to 1.63 mm)  
3.5 to 4.0 gal./100 sq. ft. (1.43 to 1.63 l/m<sup>2</sup>) on a smooth non-porous surface. Porous or rough surfaces will require higher gallonage to attain required dry thickness.

**DRYING TIME 73°F (23°C) 50% RH (ASTM D 1640):**  
Temperatures below 70°F (21°C) may require longer dry times.  
Touch: 2-3 hours  
Through: 24 hours

**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.  
When tested at 100°F, 90% RH.

**SAFETY (ASTM D 93):**  
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** 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. 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.

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Visit us on the web at [www.fosterproducts.com](http://www.fosterproducts.com)

Manufactured at an ISO 9001 Quality System Certified Facility

**H.B. Fuller Construction Products Inc**

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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<sup>2</sup>), 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<sup>2</sup>), 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.

## CLEAN-UP

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

## CUSTOMER SERVICE—800-832-9002

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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 these products is six months from date of shipment to the original purchaser.

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