



PROPERTIES

COLOR:

White

APPLICATION CONSISTENCY:

Brush, airless spray

AVERAGE WEIGHT/U.S. GALLON (ASTM D 1475):

11.5 lbs. (1.38 kg/l)

AVERAGE NON-VOLATILE (ASTM D 1644):

48% by volume (62% by weight)

COVERAGE RANGE (FSTM 71):

(Subject to the surface being coated). Wet coverages shown below are for smooth non-porous surfaces. Porous or rough surfaces will require higher gallonage to attain required dry thickness.

4 gallons per 100 square feet (1.6 l/m²) .064 in. wet thickness (1.6 mm)

DRYING TIME 73° (23°C) 50% RH (ASTM D 1640):

Set To Touch: 4 hours

Through: 24 hours

SERVICE TEMPERATURE LIMITS (FSTM 70):

(Temperature at coated surface)

-20°F to 180°F (-29°C to 82°C)

WATER VAPOR PERMEANCE:

ASTM E 96 Procedure A, 0.03 perms at 45 mils dry.

Tested at 72°F and 50% RH.

ASTM F 1249, 0.08 perms at 45 mils dry. Tested at 100°F (38°C) and 50% RH.

WET FLAMMABILITY (ASTM D 3278):

Flash Point: None to boiling, 212°F (100°C).

SURFACE BURNING CHARACTERISTICS

(ASTM E 84):

Flame Spread: 5

Smoke Developed: 30

Tested at coverage rate of 25 sq. ft. per gal.

(0.61m²/l) in a 4 inch (102 mm) wide strip.

Applied to 1/4 inch (6.4 mm) inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

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Made in the USA

FOSTER® VAPOR-FAS™ WB COATING

Foster® Vapor-Fas™ WB Coating is an economical fire resistive vapor barrier coating for use over many types of thermal insulation including polystyrene foam. It is ideal for use over ASJ, FRK and FSK jackets and board facings to give a vapor barrier seal at joints, laps and weld pin punctures.

Vapor-Fas WB Coating is formulated for indoor and outdoor commercial use. It has a mild latex "paint type" odor and is designed for use on insulated pipes, vessels, ducts and equipment operating between 32°F (0°C) and ambient temperatures.

Vapor-Fas WB Coating has a low WVTR rating effectively sealing against water ingress.

Vapor-Fas WB Coating contains no asbestos, lead mercury, or mercury compounds.

Vapor-Fas WB Coating meets NFPA 90A and 90B 25/50 requirements.

Vapor-Fas WB meets low VOC standards including:

- LEED for Schools 2009 IEQ Credit 4.2
- LEED for New Construction, IEQ Credit 4.2
- California Dept of Public Health (CDPH) Standard Method Ver. 1.1, 2010 Small Scale Environmental Chamber Test for VOCs. for CA Specification 01350
- Green Guide for Health Care EQ Credit 4.2
- Collaborative for High Performance Schools (CHPS) EQ Credit 2.2

VOC: 38 g/l, less water and exempt solvents.

LIMITATIONS

Store and apply between 40°F (4°C) and 100°F (38°C), protect from freezing until dry.

Always test foil and paper facings, and plastic surfaces for acceptable adhesion before using.

Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/2" per foot (4cm/m) is required.

To resist rain washoff, allow at least 16 hours drying time above 50°F (10°C), with a relative humidity of 50%. Higher humidity and/or lower temperature may retard drying.

Visit us on the web at www.fosterproducts.com

H.B. Fuller Construction Products Inc.

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APPLICATION GUIDE FOR FOSTER® VAPOR-FAS™ WB COATING 30-65™

MATERIAL PREPARATION

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

APPLICATION — INDOOR AND LIGHT DUTY OUTDOOR

To prevent water vapor and moisture infiltration, proper and complete flashing is required. Follow flashing specifications.

1. Apply tack coat of Foster Vapor-Fas WB Coating at 2 gallons per 100 square feet (0.8 l/m²).
2. Embed Foster MAST-A-FAB white membrane into the wet tack coat. Smooth membrane to avoid wrinkles and overlap all seams at least two inches (5 cm). Apply finish coat of Vapor-Fas WB Coating, within 1/2 hour of the tack coat application, at 2 gallons per 100 square feet (0.8 l/m²).
3. This application shall provide a minimum dry thickness of 31 mils (0.8 mm).

BRUSH

Use a good brush, suitable for water based paints, making strokes as long as possible over the surface. Apply with full brush and spread out evenly. Do not overwork.

SPRAY

Foster Vapor-Fas WB Coating may be airless spray applied. For spray equipment information, please consult Airless Spray Recommendations or contact your Spray Equipment Supplier. Average viscosity range: 85,000-110,000 cps. Corrosion resistant pumps and fittings are suggested.

CLEAN UP

Use fresh water to clean brushes and equipment before product dries. Dry product may be removed with hot soapy water (with ammonia added) or strong solvents such as chlorinated solvent (non-flammable) xylol or mineral spirits (flammable).

DATA REPORTED FROM ASTM E84 FIRE TEST (TUNNEL TEST)

ADHESIVES	
H.B. Fuller Company	
	Surface Burning Characteristics
	1/4 inch (6.4 mm) Inorganic
	Reinforced Cement Board
Surface Flame Spread	5
Smoke Developed	30
Number of Coats	1
Tested as applied in a 4 in. wide strip at a coverage of 25 sq. ft. per gal.	

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 our 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.

Armaflex® 520 BLV Adhesive

Fiber Free

A black, low VOC air-drying contact adhesive that is excellent for joining seams and butt joints of Armaflex Pipe and Sheet Insulations



- Formulated for Armaflex Insulations
- Developed to meet SCAQMD RULE 1168
- Hexane-free, Toulene-free, contact adhesive
- Proven: no gapping, no tape needed

 **armacell®**



Technical Data: Armaflex 520 BLV Adhesive

Description:

A black, low VOC air-drying contact adhesive that is excellent for joining seams and butt joints of Armaflex Pipe and Sheet Insulations

Specifications Compliance:

Meets South Coast Air Quality Management District (SCAQMD) Rule 1168

Approvals, Certifications, Compliances:

- All Armacell facilities in North America are ISO 9001:2008 certified.

Typical Properties

Specifications:	Values	
Color:	Black	
Net Weight:	6.9 pounds per gallon (828 g/l)	
Composition:	Synthetic rubber base with synthetic resins and fillers added; hydrocarbon- and ketone-type solvents.	
Volatile Organic Compounds (VOC) Content:	Zero V.O.C. g/l calculated SCAQMD 1168 and EPA Method 24	
Solids Content	Approximately 30% by weight	
Coverage	200 sq ft (5m2/l) per gallon max, single coat (depending upon porosity of materials bonded and air temperature)	
Shelf Life	2 years in original sealed container; storage temperature 60°F to 80°F (16°C to 27°C)	
Temperature Limits	250°F (120°C) – Armaflex Pipe Insulation seams and joints	
Dry Time Before Bonding	3-5 minutes depending on ambient conditions	
Bond Time	3-6 minutes	
Full Cure Time	36 hours	
Container Sizes	Pint brush-top cans and gallon containers	
Wet Flash Point	Below -4°F (-20°C) (TOC)	ASTM E 84
Flame Spread and Smoke Developed Index:	25/50 rated	
Minimum Application Temperature:	40°F (4°C)	

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Mastics, Coatings, Adhesives, Sealants

CHIL-BYL® CP-76 Sealant

FLEXIBLE ELASTOMERIC VAPOR BARRIER SEALANT

DESCRIPTION

CHIL-BYL® CP-76 sealant is a balanced blend of butyl polymers specifically designed for permanent flexibility in low temperature, dual temperature, and high temperature insulation applications.

USES

CHIL-BYL CP-76 sealant is used to vapor seal the joints of cellular glass and cellular plastic insulations (except polystyrene). It remains flexible and functional through a wide temperature range.

CHIL-BYL CP-76 sealant has good resistance to elevated temperatures, and is recommended as an expansion joint material up to 300°F. It is an excellent water seal, vapor seal, and expansion joint material, and is suggested as a joint sealant for metal jacketing systems.

APPLICATION

CHIL-BYL CP-76 sealant is applied with pointed trowel, putty knife, or power extrusion equipment. It is also available in caulking tubes and may be applied with hand or power caulking guns. It has a heavy body, and can be applied in various thicknesses without sagging or running.

ADVANTAGES

- CHIL-BYL CP-76 sealant resists the effects of water soak, high temperatures, vibration stresses, and combinations of all three.
- It has extremely low shrinkage, excellent adhesion, and requires no mixing or additives.

CERTIFIED

- Meets NFPA Standard 90-A and 90-B 25/50 requirements.
- This product has been tested according to ASTM E-84 (Surface Burning Characteristics of Building Materials).
- Meets requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants when used as a butt joint sealant in insulated systems. VOC: 356 g/l, less water and exempt solvents.

Visit us on the web at www.fosterproducts.com

COLOR

White

WET WEIGHT

10.4 lbs./U.S. gal. (1.2 kg/liter)

AVERAGE NON-VOLATILE

67% by volume, 77% by weight

SERVICE TEMPERATURE RANGE

(Temperature to which dry film is subjected.)
-100°F to 300°F -73°C to 149°C

APPLICATION TEMPERATURE RANGE

40°F to 100°F (4°C to 38°C)

DRYING TIME

To touch - 8 hours

Through - 24-72 hours

(Drying time will vary depending upon film thickness, temperature and humidity.)

COVERAGE

3.1 gals./100 sq. ft. (1.3 l/sq.m)

For joint: 1"x1/16" = 308 lineal ft. per U.S. Gal. (2.5 cm x .15 cm = 24m/liter) 125 lineal ft. per 10.5 fl. oz. tub, 1/8 in. bead (38 m per .31 l tube, 3.2 mm bead.)

FLASH POINT

103°F (39°C)

CLEAN-UP

Mineral spirits (flammable) chlorinated solvent (non-flammable).

WATER VAPOR PERMEANCE

ASTM F-1249, 0.038 perm (0.025 metric perm) tested in 0.047" (1.3 mm) dry film at 100°F (38°C) and 90%RH

The water vapor transmission through 1 in. of impermeable insulation in 12x18 in. blocks with 1/8 in. joints of CP-76 is too small to measure.

SURFACE BURNING CHARACTERISTICS (ASTM E-84, Tunnel Test)

Flame Spread: 5

Smoke Developed: 5

Surface Inorganic reinforced cement board

Total Coverage 32 sq. ft./gal, 2" wide strip

CP-76 contains no asbestos, lead, mercury, or mercury compounds.

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JOINT SEALANT FOR CELLULAR GLASS OR CELLULAR PLASTIC INSULATIONS (EXCEPT POLYSTYRENE)

During application of insulation apply a 1/8" (.31 cm) thickness of CHIL-BYL® CP-76 sealant to the longitudinal and abutting joints. Sections of insulation shall be pressed firmly into place to insure an unbroken seal. A 1" minimum depth of sealant is recommended. At termination of insulation, the CHIL-BYL CP-76 sealant shall be extended back under the insulation for a minimum of 4" (10.16 cm).

JOINT SEALANT FOR METAL JACKETING SYSTEMS

All joints of aluminum or stainless steel jacketing shall be weather sealed by applying a 1/8" (.31cm) bead of CHIL-BYL CP-76 sealant underneath the lap. Jacketing shall be firmly embedded and pulled up tight. All overflow of sealant shall be removed with solvents.

FLASHING

CHIL-BYL CP-76 sealant shall be applied over the adjoining surfaces (minimum of 2" 5.08 cm) and flashed a minimum of 2" (5.08 cm) in each direction. A membrane of CHIL-GLAS® #10 shall be embedded into the flashing compound and the minimum dry flashing thickness at all points shall be 1/8" (3 mm).

NOTES TO SPECIFYING ENGINEER

When using a solvent based vapor barrier coating system such as ENCACEL® or CHIL-PERM® CP-30LO, the joint sealant to be used shall be CHIL-BYL CP-76. CHIL-JOINT® CP-70 shall not be used for this application.

Pressurized piping made from copper and aluminum alloys may be susceptible to under insulation corrosion when moisture is present and in direct contact with many materials. When used as a joint sealant direct contact between pressurized pipes made from these metals and the sealant should be prevented.

Application Guide and Suggested Procedures

1. USE OF MATERIAL

Although CHIL-BYL CP-76 sealant may be used at very low temperatures, it is recommended that it be kept as warm as possible (preferably stored at 70°F or 21°C) just prior to application for optimum ease of application.

2. CONDITION OF THE SURFACE TO BE COATED

The surface to be coated shall be as clean and dry as possible. No primer is required over metal surfaces, however CHIL-BYL CP-76 sealant should not be applied over dusty, wet, damp, or icy surfaces, as adhesion may be adversely affected.

3. APPLICATION

CHIL-BYL CP-76 sealant is usually applied with a steel trowel. There is power extrusion equipment available for production applications. When using the caulking tubes and laying down a bead in the joints of block insulation or pipe insulation, sufficient material should be applied so that when the joints are squeezed together a minimum of 1/16" film is formed.

4. HINTS FOR SUCCESS

When the joints of insulation are squeezed together, any excess of CHIL-BYL CP-76 sealant should be removed or smoothed down flush with the insulation surface. Spillage or overflow of CHIL-BYL CP-76 sealant may be readily removed with almost any type of hydrocarbon solvent. (Caution must be exercised to ensure that the solvent used will not attack the underlying insulation and/or substrate.)

Although CHIL-BYL CP-76 sealant may be coated over with most types of coatings, user should verify by his own tests that there will be no bleeding through the top coating by the CHIL-BYL CP-76 sealant.

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