ENCACEL® V
CP-45
Vapor Barrier Coating

DESCRIPTION
ENCACEL® V, CP-45, is an elastomeric polymer-based vapor barrier and weatherproof coating designed for the protection of sprayed, board and block type insulation. ENCACEL V Vapor Barrier Coating has outstanding adhesive properties and excellent flexibility, in addition to its superior vapor barrier characteristics.

USES
Finish for all cold insulation systems. It is also recommended for hot exterior sprayed polyurethane applications. In both cases, ENCACEL V Vapor Barrier Coating is used as the finish coat after flashing and sealing all metal protrusions throughout the surface of the insulation. ENCACEL V Vapor Barrier Coating can be used as a decorative finish over closed-cell flexible cellular plastics. Care must be taken that the adhesive bonded joint is not adversely affected by the solvent in the vapor barrier.

It is not to be used in direct contact with polystyrene foam insulation.

APPLICATION
ENCACEL V Vapor Barrier Coating can be applied by spray or brush. (For applying by glove or trowel, ENCACEL X, CP-40, Vapor Barrier Coating is recommended.) With its excellent bridging properties, ENCACEL V Vapor Barrier Coating will provide a smooth finish, even over relatively rough substrates. On large exterior surfaces, such as sprayed polyurethane foam, airless spray provides the most economical and efficient method of application. Over sprayed polyurethane foam, a two-coat, two-color system is suggested to eliminate voids and holidays.

APPLICATION TEMPERATURE RANGE
40°F to 100°F
4°C to 38°C

DRYING TIME
Touch—3–4 hours
Through—24 hours
(Drying time will vary depending upon film thickness, temperature and humidity.)

COVERAGE
6 gal./100 sq. ft. (2.4 l/sq. m)
Varies with substrate and membrane

WATER VAPOR PERMEANCE
ASTM E 96, Method E, 0.025 perms (0.016 metric perms) at 51 mils dry (1.3mm) dry
ASTM E 96 Procedure A, 0.018 perms (0.012 metric perms) at 26 mils (0.66mm) dry
ASTM F 1249, 0.05 perms (0.033 metric perms) at 30 mils dry (0.8mm). Tested at 100°F (38°C) and 90% RH.

COLOR
CP-45 White, Spray/Brush
CP-45-1 Gray, Spray/Brush

WET WEIGHT
9.7 lbs./U.S. gal.
1.16 kg/liter

AVERAGE NON-VOLATILE
31% to 35% by volume, 46% by weight.

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).

CP-45 contains no asbestos, lead, mercury, or mercury compounds.

Visit us on the web at www.fosterproducts.com

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Suggested Specifications

**GENERAL SPECIFICATIONS**

The insulation will be installed in accordance with manufacturer’s recommendations and allowed to cure where necessary. The insulation shall be free of moisture, excessive rough texture, deteriorated surface, dirt, and debris. The coating shall be applied on the same day that the insulation is applied whenever possible.

**DO NOT THIN ENCACEL® V, CP-45.**

1. **Specification for Vapor Barrier Finish for Low Temperature Tanks and Equipment (-40° to 50°F; -40° to 10°C):** Mastic finish over the insulation shall be ENCACEL V CP-45 Vapor Barrier Coating. It shall be applied in two coats, the first coat being a tack coat applied at a coverage rate of 2 U.S. gallons per 100 sq. ft. (.81 l/sq. m). While still wet, a layer of CHIL-GLAS® #10 Glass Fiber Reinforcing Mesh shall be applied with all fabric seams overlapped a minimum of 2" (5.08 cm). A finish coat, at a coverage rate of 4 U.S. gallons per 100 sq. ft. (1.62 l/sq. m) shall then be applied. This total coverage rate will result in a uniform, pinhole-free coat at a minimum dry film thickness of 32 mils (.032", .8 cm) on a smooth surface. There shall be no voids or holidays. This represents 6 U.S. gallons per 100 sq. ft. (2.43 l/sq. m). Rough surfaces such as cellular glass will require 3 to 6 additional gallons of material to achieve recommended dry film thickness.

2. **Specification for Cryogenic Design: (-40° to -300°F; -40° to -184°C):** After the first two coats have set, 24 hours minimum or until dry, apply an additional coat of Encacel V Coating at a thickness of 3/64 inch (1.2 mm). This is equivalent to 3 gal./100 sq. ft. (1.2 l/m²). This additional application shall provide a minimum dry film thickness of 48 mils (1.2mm).

3. **Specification for Vapor Barrier Finish for Low Temperature Tanks Piping and Equipment (-50°F to 50°F; -46°C to 10°C) for Sprayed Polyurethane Foam:** Over monolithic sprayed-on insulation, glass fiber reinforcing mesh shall not be used. Mastic finish over insulation shall be ENCACEL V CP-45 Vapor Barrier Coating as manufactured by H.B. Fuller Construction Products Inc. A uniform pinhole-free coat to a minimum dry film thickness of 32 mils (.032", .08 cm). It shall be applied in two coats (two contrasting colors preferred) using the cross hatch method at a coverage rate of 16 dry mils (.016", .04 cm) per coat. This represents 6 U.S. gallons per 100 sq. ft. (2.43 l/sq. m) coverage on a smooth surface. Rough surfaces will require 1 1/2 to 3 additional gallons of material to achieve recommended dry film thickness. Sprayed Polyurethane Foam may be primed with Foster® 40-26™ Waterbase Primer. The joint sealant to be used shall be CHIL-BYL® CP-76 Joint Sealant a minimum of 3" (7.62 cm) over insulation and metal protrusion. A. Apply by trowel a 1/16" (.15 cm) wet coat of CHIL-BYL® CP-76 Joint Sealant a minimum of 3" (7.62 cm) over insulation and metal protrusion.

4. **Recommended Spraying Equipment**

Normal surface irregularities of sprayed polyurethane foam require correct atomization of sprayed coatings in order to achieve uniformity of dry film thickness. ENCACEL V CP-45 coating can be sprayed with a variety of airless pump models. For spray equipment information, please consult Airless Spray Recommendations.

**CUSTOMER SERVICE—800-832-9002**

IMPORTANT-H.B. Fuller Construction Products Inc. warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture. WE MAKE NO OTHER WARRANTIES AND EXPRESSLY DISCLAIM ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a product fails to meet this limited warranty, purchaser’s sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. OUR ACCEPTANCE OF ANY ORDERS FOR THE PRODUCT IS EXPRESSLY CONDITIONAL UPON PURCHASER’S ASSENT TO THE TERMS ON THE APPLICABLE INVOICE. 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.