DURABLE WATER BASED VINYL-ACRYLIC MASTIC COATING
FOR THERMAL INSULATIONS

DESCRIPTION
VI-CRYL® CP-10/11 weather barrier coating is a tough, durable, and fire-resistive water based mastic for most types of thermal insulation and finishing and insulating cements. It is very thixotropic - it looks heavy but spreads easily. It is available in a variety of standard colors. It is outdoor rated and U.V. resistant.

USES
VI-CRYL CP-10/11 weather barrier coating is unsurpassed for the mechanical protection and weatherproofing of thermal insulations both outdoors and indoors, in hot, cold, and dual-temperature service. However, since it is a 'breathing' coating (vapors under pressure will pass through it) it should only be used over insulations in low-temperature, or dual-temperature service when the insulations themselves are vapor barriers. VI-CRYL CP-10/11 has also found use throughout the thermal insulation industry as a coating used over closed cell polyethylene and polyurethane foam insulations. Industry experience has demonstrated that all weather barrier coatings may blister when applied over polystyrene board. This effect may be limited by the use of white colored coatings. VI-CRYL CP-10/11 weather barrier coating in its Metallic Gray color is the ideal companion product to Aluminum and Stainless Steel Jacketing.

APPLICATION
VI-CRYL CP-10/11 weather barrier coating is easy to apply by Trowel, Brush or Heavy-Duty Airless Spray. Its thixotropic consistency yields a smooth, attractive finish even over rough substrates; it readily fills gaps and imperfections. VI-CRYL CP-10/11 coating should be applied with glass fiber or synthetic reinforcing mesh.

ADVANTAGES
- In the wet state, VI-CRYL CP-10/11 weather barrier coatings is non-flammable. It contains no solvents that will attack insulations or facings.
- The cured film is tough, flexible, and resists most common chemicals and many solvents.
- It is fire-resistive: its flame spread index being within the range of acceptance of government and industrial agencies.

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® IEO 4.2 Low-Emitting Materials, Paints and Coatings. VOC: 45 g/l, less water and exempt solvents.

CP-10/11 contains no asbestos, lead, mercury, or mercury compounds. See other side for specification and application information. Visit us on the web at www.fosterproducts.com

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VI-CRYL®
CP-10 (Trowel Grade)
CP-11 (Spray/Brush)
Weather Barrier Coatings

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COLORS
<table>
<thead>
<tr>
<th></th>
<th>TROWEL</th>
<th>SPRAY/BRUSH</th>
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</thead>
<tbody>
<tr>
<td>White</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Metallic Gray</td>
<td>10-1</td>
<td>11-1</td>
</tr>
<tr>
<td>Black</td>
<td>10-2</td>
<td>11-2</td>
</tr>
</tbody>
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WET WEIGHT
11.3 lbs./U.S. gal.  (1.35 kg/liter)

AVERAGE NON-VOLATILE
51% by volume (64% by weight)

SERVICE TEMPERATURE RANGE
(Temperature to which dry coating is subjected.)
-40°F to 180°F
(-40°C to 83°C)

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

DRYING TIME
Touch - 2-4 hours
Through - 24-36 hours
(Drying time will vary depending upon film thickness, temperature and humidity.)

COVERAGE
4 to 6 U.S. gal./100 sq. ft. (1.6 to 2.4 l/sq.m)
(Varies with substrate and membrane.)

CLEAN-UP
Warm, soapy water (wet) xylol (dry)

WATER VAPOR PERMEANCE ASTM E-96
Greater than 1.0 perm for 1/16 inch (0.16cm) dry film.  (Procedure B)

GENERAL PURPOSE COATING
SURFACE BURNING CHARACTERISTICS
282U

Applied to ¼” Inorganic Reinforced Cement Board
Flame Spread: 10
Smoke Developed: 40
Rate per Coat (Sq.ft/gallon): 16.7
Number of Coats 1
Flash point of liquid coating (closed cup): No flash to boiling

R3593
Application Guide and Suggested Procedures

1. USE OF MATERIAL

VI-CRYL CP-10/11 weather barrier coating looks much heavier than it is. It is thixotropic. DO NOT THIN. Protect from freezing until dry. Keep stored over long periods of time in a heated area. For spray application VI-CRYL CP-10/11 coating must be kept at a minimum of 50°F (10°C) just prior to spraying to achieve optimum results.

2. THE CONDITION OF THE INSULATION TO BE COATED

VI-CRYL CP-10/11 is a “breathing coating” which means that it will allow reasonable amounts of water (in the form of vapor - a gas) to pass through it in a reasonable period of time. However, excessively wet insulation on equipment operating at elevated temperatures will cause excessive water vapor pressure, and therefore blistering of the finish. Make certain the insulation is dry prior to the application of any coating.

To obtain proper bonding, dusty surfaces shall first be primed with Chil-Seal CP-50A MV1 diluted 50% with water.

When applying VI-CRYL CP-10/11 coating over hygroscopic alkaline cements, first prime the surface of the cement with Chil-Seal CP-50A MV1 diluted 50% with water and allow to dry completely before applying the finish coat.

The presence of moisture in systems operating in Cold Service can destroy the effectiveness of not only the finish, but the entire insulation system. They MUST BE DRY.

All exterior horizontal surfaces must be sloped at least 1/2 inch per foot (4cm/m) to prevent ponding water.

3. HAND APPLICATION

Large flat areas are best covered by application with trowel or stiff brush. Smaller, irregular surfaces such as fittings are more readily covered by brushing. Airless spray may also be used.

4. SPRAY APPLICATION

VI-CRYL CP-11 coating may be sprayed with many types of equipment, including airless spray. It may also be sprayed with conventional Mastic spray equipment using an external atomizing spray gun. Many manufacturers of spray equipment can make detailed recommendations for any number of types of equipment. The spray equipment and techniques would be similar to those used for applying block fillers. For best results, we suggest at a minimum the following airless spray equipment (see spray equipment dealer for available packages):

- **PUMP**: Graco Checkmate pump, 40:1 on 100cc lower, NXT2200 motor mounted on ram plate, Graco S20C – 5 gallon cart mounted ram
- **COMPRESSOR**: Capable of 75 CFM and maintaining 100 PSIG.
- **FLUID HOSE**: High pressure capable of 4,000 PSI ½” inch up to 50 feet. 3/4 inch over 50 feet. Use 8” x 1/2” I.D. hose for coupling to the gun. A higher ratio pump set-up will allow for longer hose runs up to 150’.
- **GUN**: Graco Mastic or textured coating spray guns with Reverse-A-Clean tips.
- **TIP SIZES**: 635 to 655.

5. DRYING AND RECOATING

A finish coat of VI-CRYL CP-10/11 weather barrier coating should be applied immediately after the tack coat and membrane application for maximum bond.

CUSTOMER SERVICE: 800-832-9002

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