



Mastics, Coatings, Adhesives, Sealants

CHIL-BYL®
CP-76 Sealant
Product Data Sheet

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 90A and 90B 25/50 requirements.
- This product has been tested according to ASTM E84 (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.

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COLOR

White

WET WEIGHT (ASTM D1475)

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

AVERAGE NON-VOLATILE (ASTM D2369)

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

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

To Touch: 8 Hours

Through: 24 – 72 Hours

COVERAGE

3.1 gals./100 sq. ft. (1.3 l/m²)

FOR JOINT: 1" x 1/16" = 308 linear ft. per U.S. Gal. (2.5 cm x 0.15 cm = 24 m/liter)

1/8" bead = 125 lineal ft. per 10.5 fl. oz. tube (3.2 mm bead = 38 m per 0.31 l tube)

FLASH POINT

103°F (39°C)

CLEAN UP

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

WATER VAPOR PERMEANCE

ASTM F1249: 0.038 perms (0.025 metric perms) tested in a 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 12 x 18 in. blocks with 1/8 in. joints of CP-76 is too small to measure

SURFACE BURNING CHARACTERISTICS (ASTM E84)

Flame Spread:	5
Smoke Developed:	5
Surface:	Inorganic reinforced cement board
Total Coverage:	32 sq. ft./gal., 2" wide strip

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

During application of insulation, apply a 1/8" (0.31 cm) thickness of CHIL-BYL® CP-76 sealant to the longitudinal and abutting joints. Sections of insulation shall be pressed firmly into place to ensure 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" (0.31 cm) 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 a 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.

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 twelve months from date of shipment to the original purchaser or as otherwise provided on the certificate of analysis.

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