Childers®
Mastics, Coatings, Adhesives, Sealants

CHIL-JOINT® CP-70 Sealant

FLEXIBLE JOINT SEALANT, FLASHING COMPOUND AND VAPOR SEAL

DESCRIPTION
CHIL-JOINT® CP-70 is a non-shrinking, permanently flexible, economical sealant for applications with all types of low temperature, dual temperature, and some high temperature insulation systems.

USES
CHIL-JOINT CP-70 Sealant is used to vapor seal and act as an expansion joint in the joints of cellular glass and cellular plastic insulations. It will not attack even polystyrene insulations and remains flexible and functional through a wide temperature range.

CHIL-JOINT CP-70 Sealant has good resistance to elevated temperatures, and it is recommended as an expansion joint material up to 300ºF (149ºC). It is an excellent water seal, vapor seal and expansion joint material, and is suggested as a joint sealant for all metal jacketing systems.

APPLICATION
CHIL-JOINT CP-70 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
- It has practically no volatiles that would cause it to shrink when it is used to seal the joints of impermeable materials.
- It will not shrink or pull away from surfaces, and even at elevated temperatures (although it may discolor and harden) it still forms a tight weather bond under most conditions.
- It forms a tough protective surface where exposed to the air which helps protect the permanent flexibility of the underlying sealant.
- CHIL-JOINT CP-70 Sealant requires no mixing or additives.
- Meets requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants. VOC: < 85 g/l, less water and exempt solvents (Cartridges: VOC < 4% by weight)

For available standard container sizes see the latest price list or contact Customer Service.

Visit us on the web at www.fosterproducts.com

COLOR
Gray

WET WEIGHT
14.2 lbs./U.S. gal.
1.7 kg/liter

AVERAGE NON-VOLATILE
93% by volume, 96% by weight

SERVICE TEMPERATURE RANGE
(Temperature to which dry coating is subjected.)
-100ºF to 300ºF
-73ºC to 149ºC

APPLICATION TEMPERATURE RANGE
40ºF to 100ºF
4ºC to 38ºC

DRYING TIME
Non-Drying: Skins over in 24 hours

FLASH POINT
142ºF

COVERAGE
For Joint: 1” x 1/16” = 1 U.S. gal. for 308 lin. ft. (2.5 cm x .16 cm = 24m/liter)
125 lin. ft. per 10.5 oz. tube for 1/8” bead (38m/310 ml tube for 3.2 mm bead)

COMBUSTIBILITY
Combustible. Flame spread and fuel contribution negligible when used as sealant in 1/8 in. (3.2 mm) wide joints of incombustible insulation.

CLEAN-UP
Mineral spirits

WATER VAPOR PERMEANCE
ASTM F-1249, 0.06 perm (0.04 metric perm) tested in 1/8”(3.2mm) film at 100ºF (38ºC) and 90%RH

The water vapor transmission through 1 inch of impermeable insulation in 12 in. X 18 in. blocks with 1/8 in. (3.2 mm) wide joints of CP-70 us too small to measure.

CP-70 contains no asbestos, lead, mercury, or mercury compounds.

H.B. Fuller Construction Products Inc.

Customer Service
800-832-9002

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Aurora, IL 60504

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Suggested Specifications — *CHIL-JOINT® CP-70*

JOINT SEALANT FOR CELLULAR GLASS OR CELLULAR PLASTIC INSULATIONS

During application of insulation apply a minimum 1/8" (.31cm) thickness of CHIL-JOINT® CP-70 Sealant to the longitudinal and abutting joints, for the total width of the insulation section. Sections of insulation shall be pressed firmly into place to ensure an unbroken seal. At termination of insulation, the CHIL-JOINT CP-70 Sealant shall be extended back under the insulation for a minimum of 4" (10.16 cm).

Note: 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.

JOINT SEALANT FOR METAL JACKETING SYSTEMS

All joints of aluminum or stainless steel jacketing shall be weather sealed by applying a 1/8" (.31 cm) bead of CHIL-JOINT CP-70 Sealant underneath the lap. Jacketing shall be firmly embedded and pulled up tight. All overflow of sealant shall be removed with solvents.

FLASHING COMPOUND AT UNINSULATED SURFACES

Where weatherproofed insulation butts uninsulated surfaces, CHIL-JOINT CP-70 Sealant shall be applied over the adjoining weatherproof surface and flashed to the uninsulated surface a minimum of 2 inches (5.08cm) in each direction. A glass fiber reinforcing mesh of CHIL-GLAS® #10 shall be embedded into the flashing compound and the minimum flashing thickness at all points shall be 1/16" (.15 cm).

NOTES TO SPECIFYING ENGINEER

1. **When using a solvent vapor barrier coating system such as ENCACEL® or CHIL-PERM® CP-30 LO, the joint sealant to be used shall be CHIL-BYL® CP-76 Sealant. CHIL-JOINT CP-70 Sealant shall not be used for this application if discoloration of coating would be objectionable.**
2. In areas where multiple layer cellular insulations are applied, it is suggested that the insulation manufacturer's recommendations be followed. All joints shall be buttered with CHIL-JOINT CP-70 sealant to a minimum thickness of 1/16" (.15 cm).

Application Guide and Suggested Procedures

1. USE OF MATERIAL

CHIL-JOINT CP-70 Sealant is a very viscous material. Although it may be used at very low temperatures, it is suggested that the CHIL-JOINT CP-70 Sealant be kept as warm as possible (preferably stored at 70ºF; 21ºC) just prior to application for optimum ease of application. **DO NOT THIN**.
CHIL-JOINT CP-70 Sealant should be applied at temperatures 40ºF (4ºC) or greater.

2. CONDITION OF THE SURFACE TO BE COATED

The surface to be coated should be free of all oil, grease, loose scale and foreign matter and shall be dry and free from frost.

3. APPLICATION

CHIL-JOINT CP-70 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 beading should be applied so that when the joints are squeezed together a minimum 1/16" (.15 cm) film is formed.

4. HINTS FOR SUCCESS

When the joints of insulation are squeezed together, any excess CHIL-JOINT CP-70 Sealant should be removed or smoothed down flush with the insulation surface. Spillage or overflow of CHIL-JOINT CP-70 Sealant may be readily removed with almost any type of hydrocarbon solvent.
Although CHIL-JOINT CP-70 Sealant may be coated over with many types of coatings, user should verify by his own test that there would be no bleeding through the top coating by the CHIL-JOINT CP-70 Sealant.

Make certain this product is completely dry and the area free from product odor if food is involved.

CUSTOMER SERVICE: 800-832-9002

For professional use only. Keep out of reach of children.

Consult Material Safety Data Sheet and container label for further information.