



Mastics, Coatings, Adhesives, Sealants

CHIL-STIX® CP-85 Adhesive

QUICK SETTING RUBBER ADHESIVE FOR FLEXIBLE BLANKET INSULATIONS AND VAPOR BARRIER FACINGS

DESCRIPTION

CHIL-STIX® CP-85 adhesive is a fast drying rubber based adhesive with quick initial grab. It remains permanently flexible.

USES

CHIL-STIX CP-85 adhesive adheres low density fibrous glass insulations, some plastic foams, and other light density materials to sheet metal surfaces such as galvanized steel and aluminum. It may be used to bond many facings and fabrics to each other and to a variety of substrates. CHIL-STIX CP-85 adhesive is used for adhering to laps of vapor barrier jackets and facings.

APPLICATION

CHIL-STIX CP-85 adhesive is readily applied by brush or roller. In applications such as a flexible blanket adhesive for insulation ducts, it is usually applied to the metal surfaces and the insulation set into it. For spray applications CHIL-SPRAY® CP-88 is suggested.

ADVANTAGES

- CHIL-STIX CP-85 adhesive has immediate grab, yet will bond many materials even as long as 10 minutes after the adhesive is applied.
- Its clear color eliminates many problems of staining and discoloration.
- CHIL-STIX CP-85 adhesive is very easy to brush and exhibits minimum stringing and cobwebbing.
- Excellent coverage. Extremely economical to use.
- The dried film of CHIL-STIX CP-85 adhesive retains its flexibility.
- Low flame spread index allowing use wherever building codes or regulations call for a flame spread index of less than 25.

CERTIFIED

- Meets NFPA Standard 90-A and 90-B 25/50 requirements.
- Meets ASTM C-C916, Type 4.
- This product has been tested according to ASTM E-84 (Surface Burning Characteristics of Building Materials).

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COLORS

Clear Amber

WET WEIGHT

6.6 lbs./U.S. gal.
(0.79 kg/liter)

AVERAGE NON-VOLATILE

40% by weight

SERVICE TEMPERATURE RANGE

(Temperature to which dry coating is subjected.)
-20°F to 200°F
(-29°C to 93°C)

APPLICATION TEMPERATURE RANGE

40°F to 100°F
(4°C to 38°C)

BONDING TIME


For Insulation Attachment: 0 to 10 minutes
For Lap Sealing: 2 to 10 minutes

COVERAGE

For Insulation Attachment:
200 to 250 sq. ft./U.S. gal.
(4.9 to 6.1 sq. meters/liter)
(Adhesive applied to metal)
For Sealing 2" (5.08 cm) wide Laps:
500 to 600 lin. ft./U.S. gal. (40 to 48 m/liter)

CLEAN-UP

Non-Flammable: Chlorinated Solvents
Flammable: Mineral spirits

	ADHESIVES
	SURFACE BURNING CHARACTERISTICS 321U
Applied to 1/4" Inorganic Reinforced Cement Board	
Flame Spread:	10
Smoke Developed:	25
Tested as applied at a coverage rate of 200 ft ² /gal. Flash point of finished adhesive (closed cup) less than 30° F.	
	R5661

CP-85 contains no asbestos, lead, mercury, or mercury compounds.

H.B. Fuller Construction Products Inc.

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ADHESION OF BLANKET INSULATIONS TO DUCTS

All fibrous glass (or other) insulation shall be applied to ducts using CHIL-STIX[®] CLEAR CP-85 adhesive. Entire sheet metal duct surface shall receive a coat of CHIL-STIX CLEAR CP-85 adhesive applied at a maximum coverage of 250 square feet per gallon (6.1 sq.m/l).

SEALING OF LAPS AND TAPES

Laps of all vapor barrier jackets shall be adhered by using CHIL-STIX CLEAR CP-85 adhesive. CHIL-STIX CLEAR CP-85 adhesive shall be allowed to become tacky before sealing laps.

Application Guide and Suggested Procedures

1. USE OF MATERIAL

CHIL-STIX CLEAR CP-85 adhesive is a clear adhesive which should require no thinning, alteration or preparation prior to using. Although it will not freeze at low temperatures, it is suggested that CHIL-STIX CLEAR CP-85 adhesive not be applied at temperatures lower than 40°F (4°C) due to the possibility of condensation or frosting on metallic surfaces, which retards drying and inhibits bonding. Applications made at temperatures exceeding 100°F (38°C) may result in blistering. CHIL-STIX CLEAR CP-85 adhesive is manufactured with volatile flammable solvents. Keep away from heat, sparks, flame and other sources of ignition, and do not use near welding operations. Keep the container tightly closed when not in use.

Use only in well ventilated areas. Avoid prolonged breathing of vapors and prolonged or repeated contact with skin.

2. CONDITION OF THE SURFACES TO BE COATED

CHIL-STIX CLEAR CP-85 adhesive may be applied over almost any type of substrate. It is advisable that metal surfaces be as oil free as possible. No primer is required over galvanized steel or aluminum to gain maximum adhesion. Do not apply over wet or damp surfaces, as the adhesion will be affected.

3. APPLICATION

CHIL-STIX CLEAR CP-85 adhesive is designed primarily as a brush adhesive. It is suggested that for spray application Childers CHIL-SRPAY NF CP-89 be utilized. For adhering light density insulations such as fibrous glass blanket insulation, the adhesive shall be brushed on to the metal or other substrate. The insulation may be bonded almost immediately or as long as 10 minutes afterwards, depending upon temperature and humidity conditions. It is advised that the user determine the best bonding period based upon the particular working

conditions at the time of use. It is suggested that the adhesive be applied at 100% coverage to assure maximum bonding. It is advisable to use mechanical fastening devices such as welded pins on this type of application, particularly on the bottoms of wide ducts.

The solvents in this adhesive might attack certain plastic foams, films or laminates. The user should determine by prior test or consultation that this adhesive may be used with the specific materials and under the application conditions that exist. To adhere the laps of vapor barrier jackets such as those on pipe insulation, it is suggested that the adhesive be applied at a heavier rate than for applying blanket insulations. It is preferable to coat both surfaces of the vapor barrier jacket, or as an alternate coat the underside (foil side), strike the lap, then wait until most of the solvent has escaped from the adhesive and it has become quite tacky. Then the lap should be firmly pressed together working from the center of the section outward, to affect a smooth surface finish.

4. HINTS FOR SUCCESS

The tack time and drying time of adhesives are dependent upon the evaporation of volatile solvents. The rate at which the solvents evaporate will vary with temperature, humidity, and air circulation. If the laps of vapor barrier jackets open up right away, it is usually an indication that the adhesive is being allowed to dry too much before striking the lap. To reactivate adhesive a thin topcoat should be applied to each surface. If the laps are holding together initially, but slowly opening afterwards, it is an indication that there has not been enough time allowed for the solvents to evaporate.

NOT SUGGESTED FOR USE OVER POLYSTYRENE.

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.