



Mastics, Coatings, Adhesives, Sealants

CHIL-STIX®
CP-85 Adhesive
Product Data Sheet

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 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-GRIP™ CP-124-6 is suggested.

ADVANTAGES

- CHIL-STIX® CP-85 adhesive has immediate grab, yet will bond many materials even 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 90A and 90B 25/50 requirements.
• Meets ASTM C916, Type IV.
• This product has been tested according to ASTM E84 (Surface Burning Characteristics of Building Materials).

COLOR

Clear amber

WET WEIGHT (ASTM D1475)

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

AVERAGE NON-VOLATILE (ASTM D2369)

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

Insulation Attachment: 0 – 10 Minutes
Lap Sealing: 2 – 10 Minutes

COVERAGE

Insulation Attachment: 200 – 250 sq. ft./U.S. gal. (4.9 – 6.1 m²/liter) for adhesive applied to metal

Sealing 2 in. (5.08 cm) Wide Laps: 500 – 600 linear ft./U.S. gal. (40 – 48 m/liter)

CLEAN UP

Chlorinated solvents (non-flammable) or mineral spirits (flammable)

UL Classified logo and table of Adhesives Surface Burning Characteristics (ASTM E84) showing Flame Spread (10), Smoke Developed (25), and Flash Point (< 30°F) for R5661.

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## **ADHESION OF BLANKET INSULATIONS TO DUCTS**

All fibrous glass (or other) insulation shall be applied to ducts using CHIL-STIX® CP-85 adhesive. Entire sheet metal duct surface shall receive a coat of CHIL-STIX® CP-85 adhesive applied at a maximum coverage of 250 sq. ft./gal. (6.1 m<sup>2</sup>/l).

## **SEALING OF LAPS AND TAPES**

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

# **Application Guide and Suggested Procedures**

## **1. USE OF MATERIAL**

CHIL-STIX® 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® 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® 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® 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® CP-85 adhesive is designed primarily as a brush adhesive. It is suggested that for spray application, CHIL-GRIP™ CP-124-6 be utilized. For adhering light density insulations such as fibrous glass blanket insulation, the adhesive shall be brushed onto 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 and 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 ensure 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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