

SPRAYABLE, NON-FLAMMABLE ELASTOMERIC HVAC DUCT LINER INSULATION AND VAPOR BARRIER FACING ADHESIVE

DESCRIPTION

Adhesive specifically designed for application using low pressure spray equipment. Its jelly-like structure produces little "buds" of adhesive when it is sprayed. These buds bite into the porous, fibrous surface of the insulation, resulting in a good bond. A high coverage rate is obtained. CHIL-SPRAY NF CP-89 adhesive is non-flammable in the wet state and fire resistive in the dry state.

USES

CHIL-SPRAY NF CP-89 adhesive is used to bond lightweight insulation materials to duct work, and in equipment such as air conditioners, furnaces, etc. CHIL-SPRAY NF CP-89 adhesive is also used to bond such porous and lightweight materials as cork, cardboard and paper.

APPLICATION

CHIL-SPRAY NF CP-89 adhesive is designed for spray application only. Where a brush or roller applied material is desired use CHIL-STIX FRN CP-82 adhesive.

ADVANTAGES

- The equipment recommended to spray CHIL-SPRAY NF CP-89 adhesive is low cost and operates with minimum air.
- CHIL-SPRAY NF CP-89 sprays easily without misting or cobwebbing.
- There is little or no clogging of equipment and high production rates and excellent coverages are obtained.
- The blue color makes the area that has been sprayed visible.
- CHIL-SPRAY NF CP-89 adhesive has a relatively long bonding time.
- Non-flammable chlorinated solvents eliminate explosion and fire hazards during application.

CERTIFIED

- Meets NFPA Standard 90-A & 90-B 25/50 requirements.
- Meets ASTM C-916, Type 2.
- This product has been tested according to ASTM E-84 (Surface Burning Characteristics of Building Materials).

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COLOR

Blue

WET WEIGHT

10.6 lbs./U.S. gal.
(1.3 kg/liter)

AVERAGE NON-VOLATILE

18% by weight, 20% by volume

SERVICE TEMPERATURE RANGE

(Temperature to which dry film is subjected.)
-30°F to 160°F
(-34°C to 71°C)

APPLICATION TEMPERATURE RANGE

40°F to 100°F
(4°C to 38°C)

BONDING TIME

1 to 10 minutes.

COVERAGE

Up to 600 sq./ft./U.S. gal. (14.7 sq. m/l)
Varies with substrate and insulation.

CLEAN-UP

Non-flammable--Chlorinated Solvents
Flammable--Xylene

CLASSIFIED		ADHESIVES	
UL		SURFACE BURNING CHARACTERISTICS	
Applied to Inorganic Reinforced Cement Board			
Flame Spread:			10
Smoke Developed:			0
Tested as applied at a coverage rate of 450 ft ² /gal 312U			

CP-89 contains no asbestos, lead, mercury, or mercury compounds.

Suggested Specifications

CHIL-SPRAY[®] NF CP-89

DUCT LINING INSULATION

All fibrous glass (or other) duct lining insulation shall be applied with CHIL-SPRAY NF CP-89 adhesive. The adhesive shall be spray-applied to the ductwork at a maximum coverage of 600 square feet per gallon (14.7 sq.m./liter) and full coverage shall be given to the metal.

NOTE TO SPECIFYING ENGINEER

In lined ducts there are considerable forces placed on the lining material. Since an adhesive has no better strength than the material it is adhering and since most insulations such as fibrous glass tend to delaminate, it is usually desirable to also specify the use of welded pins or adhered clips and retaining washers as mechanical adjuncts to the adhesive. These fasteners are usually spaced on 18" - 24" (45-61cm) centers.

Application Guide and Suggested Procedures

1. USE OF MATERIAL

For optimum storage conditions, CHIL-SPRAY NF CP-89 adhesive should be stored at 55°F to 80°F (13°C to 27°C). Lower temperatures will cause a temporary increase in viscosity and difficulty in spraying may be experienced. Higher temperatures will shorten the shelf life of this product.

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

2. CONDITION OF SURFACE TO BE COATED

CHIL-SPRAY NF CP-89 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. DO NOT THIN.

The solvents in this adhesive will attack polystyrene foam and might attack certain other plastic foams, films, or laminates. The user should determine by prior test that this adhesive may be used with a specific material, and under the application conditions which exist.

3. APPLICATION

CHIL-SPRAY NF CP-89 adhesive is designed for use with low pressure spray equipment available from many different manufacturers. The types and model numbers of units suggested herein do not imply endorsement of any one unit, or assurance of their applicability under the users requirements.

4. HINTS FOR SUCCESS

All material hoses should be resistant to chlorinated solvents. Packings and glands in contact with the adhesive should be made of Teflon. When spraying, trigger the spray gun at the end of each pass. This helps eliminate clogging or adhesive build-up at tip. Hold gun perpendicular to and about 12" (30 cm) away from the surface to be sprayed. A speckled pattern gives the most effective bond. This is not a paint--do not try to completely cover the surface. Place the insulation into the adhesive while it is still wet--do not allow it to dry too much or an insufficient bond will result. Too much adhesive can be as bad as too little. If the speckles are too small it means that the atomizing pressure is too high, and should be cut back. (The adhesive will also dry too quickly if this is the case.) Spray equipment must not contain aluminum parts.

Spray Equipment Suggestions		
	BINKS	DEVILBISS
SPRAY GUN MODEL	2001SS	JGA-510
FLUID NOZZLE	63BSS	FF
NEEDLE	363A	FF
AIR CAP	63PB	777
FLUID PRESSURE REQUIRED	15-20 lbs	
ATOMIZING AIR	40-50 lbs	

CUSTOMER SERVICE—800-231-9541 OR 800-338-2975

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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.

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