



Mastics, Coatings, Adhesives, Sealants

CHIL-QUIK™ CP-127 Adhesive

HIGH QUALITY WATER BASED HVAC INSULATION ADHESIVE FOR APPLICATION BY BRUSH, SPRAY, ROLLER, OR DUCT LINER MACHINE

DESCRIPTION

Childers CHIL-QUIK™ CP-127 is a high quality, fast tacking, water based emulsion-type HVAC adhesive that creates an exceptionally strong and long lasting bond. It can be applied by brush, spray, roller coat, or duct liner machine. It is white in color, but dries clear.

USES

CHIL-QUIK CP-127 adhesive is used in conjunction with low-density glass fiber and mineral fiber insulations. It adheres vapor barrier jacketing and facing materials, such as Foil Faced Kraft paper laminates (FSK) and All Service Jacketing (ASJ), to insulation. It adheres rigid board stock insulations to the interior/exterior surface of galvanized steel and/or aluminum metal ductwork prior to final securement. Seals edges of duct liner insulation to prevent fiber release.

APPLICATION

CHIL-QUIK CP-127 adhesive is designed to be easily applied by brush, roller coat, low-pressure air assisted spray equipment, airless spray equipment, or duct liner facing machines.

ADVANTAGES

- CHIL-QUIK CP-127 adhesive is water based for personnel safety; it contains no solvents, and presents no fire hazard during application.
- Cleanup with water is quick and easy.
- Because it dries clear, overspray is not objectionable.
- Since CHIL-QUIK CP-127 adhesive exhibits good tack, insulation can be immediately pressed into place, which results in high production rates.
- The bond created between insulation and jacketing/substrate is strong, which helps prevent delamination to provide a longer service life.
- May be used to seal or butter cut edges of duct liner insulation to retard fiber release. It can be applied to edges by brush, spray or dipping
- CHIL-QUIK CP-127 adhesive is versatile, being able to be applied in a wide variety of methods, including automatic coil lines and roll coaters to help reduce inventory requirements.

CERTIFIED

- Meets NFPA Standard 90-A & 90-B 25/50 requirements.
- This product has been tested according to ASTM E-84 (Surface burning Characteristics of Building Materials).
- This product meets the requirements of ASTM C916, Type II (ASC-A-7001, Type II).
- Meets requirements for LEED IEQ 4.1 Low-Emitting Materials, Adhesives and Sealants. VOC: 5 g/l, less water and exempt solvents.

COLOR

White (dries clear)

WET WEIGHT

8.8 lbs./U.S. gal.
(1.05 kg/liter)

AVERAGE NON-VOLATILE

38% by volume, 40% by weight

SERVICE TEMPERATURE RANGE

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

APPLICATION TEMPERATURE RANGE

40°F to 100°F
(4°C to 30°C)

BONDING TIME


(Bonding Time is dependent upon temperature, humidity, and film thickness.)
0 to 10 minutes

COVERAGE

(Coverage is dependent upon substrate, film thickness, and machine settings.)
Up to 600 sq. ft./U.S. gal. (14.7 sq. m/l)

CLEAN-UP

Hot, soapy water (wet) xylene (dry)

	ADHESIVES	
	SURFACE BURNING CHARACTERISTICS	
Applied to Inorganic Reinforced Cement Board		
Flame Spread:		5
Smoke Developed:		0
Tested as applied at a coverage rate of 400 ft ² /gal		
312U		

CP-127 contains no asbestos, lead, mercury, or mercury compounds.

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ADHESION OF VAPOR BARRIER JACKETING TO INSULATION

All vapor barrier jacketing facing materials shall be laminated to glass fiber or mineral fiber insulation with CHIL-QUIK™ CP-127 adhesive. The adhesive shall be applied at a coverage rate between 200 to 600 sq. ft./U.S. gal. (4.9 to 14.7 sq. m/liter).

ADHESION OF INSULATION TO METAL DUCTWORK

All glass fiber (or mineral fiber) insulation shall be adhered to the underlying metal (or metal ductwork) with CHIL-QUIK™ CP-127 adhesive prior to final securement with specified mechanical fastening devices. The adhesive shall be applied at a coverage rate between 200 and 600 sq. ft./U.S. gal. (4.9 to 14.7 sq. m/liter).

Application Guide and Suggested Procedures

1. SAFETY PRECAUTIONS

CHIL-QUIK CP-127 adhesive is water based for personnel safety. This product may be an eye irritant; protect eyes at all times. Avoid prolonged breathing of vapors and prolonged or repeated contact with skin. Keep container tightly closed when not in use. Use with adequate ventilation.

2. USE OF MATERIAL

CHIL-QUIK CP-127 adhesive requires no mixing or preparation prior to application. **DO NOT THIN.** Use it as it is supplied. Keep from freezing. Optimum storage conditions are between 55°F to 80°F (13°C to 26°C). Do not apply at temperatures less than 40°F (4°C) since condensation on the metal substrate (blushing) may occur, which may retard drying time and/or adversely affect the bond strength. All metal surfaces should be clean, dry, and free of oil or grease to assure the best possible bond.

3. APPLICATION

CHIL-QUIK CP-127 adhesive may be applied by brush, roller coat, spray, and/or duct liner facing machine. The product is easily applied by low-pressure air assisted spray equipment commonly used throughout the industry, or even by airless spray equipment. If the desired application is by duct liner machine,

The adhesive should be applied to the backside of the desired facing at the recommended coverage rate and the laminated to the insulation. No matter how the product is applied, 100% coverage of the metal or foil surface is required in order to obtain the best possible adhesion. Press the insulation firmly into place immediately after application of CHIL-QUIK CP-127 adhesive, or up to ten minutes after application. Average viscosity range: 3000-5000 cps.

Spray Equipment Suggestions:

Conventional Air Spray:

SPRAY GUN: Binks 2001SS or DeVilbiss JGA-510
FLUID NOZZLE: Binks 68SS (0.110") or DeVilbiss E
AIR CAP: Binks 68PB or DeVilbiss 777
FLUID PRESSURE: 25 psi
ATOMIZATION PRESSURE: 60 PSI
FEED PUMP: 1:1 or 2:1 transfer pump

Many other combinations from these and other manufacturers may also be appropriate.

Airless Spray:

Must be a 3000 psi sprayer capable of handling tip sizes of 0.019" - 0.025". Typical sprayer that meets these requirements would be a Graco Ultra 395 (0.023" max tip) or Graco Ultramax II 495.

4. HINTS FOR SUCCESS

If CHIL-QUIK CP-127 adhesive has been used to laminate jacketings and/or facings to insulation, be sure to store the faced and/or jacketed insulation at temperatures above 40°F (4°C) until the adhesive is completely dry to prevent potential delamination. If CHIL-QUIK CP-127 adhesive has been applied by spray and/or duct liner machine, be sure that all fittings are manufactured from either stainless steel or Teflon® to prevent corrosion. Be sure to flush all equipment with water both before and after application of the adhesive. Do not allow the adhesive to dry out in the equipment.

The time the adhesive takes to tack up and dry is dependent upon temperature, humidity, and air circulation. Applying CHIL-QUIK CP-127 adhesive in a dry atmosphere between 40°F and 100° F (4°C and 38°C) to a dry substrate with ventilation will help maximize production rates.

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.**