

# Childers™

Mastics, Coatings, Adhesives, Sealants

## CP-126 Adhesive

### WATER-BASED INSULATION ADHESIVE FOR APPLICATION BY BRUSH, SPRAY OR ROLLER

#### DESCRIPTION

Childers CP-126 adhesive is a high quality, fast-tacking, water-based adhesive for HVAC and commercial mechanical insulation attachment.

#### USES

CP-126 adhesive is used in conjunction with low-density (up to 3#/cu. ft.) 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.

CP-126 adhesive can also be applied as a contact bond adhesive being applied to both surfaces in areas where water entrapment may be a problem such as polystyrene or rubber foam to metal.

#### APPLICATION

CP-126 adhesive is designed to be easily applied by brush, roller, low-pressure air assisted spray or airless spray equipment. Not suggested for use with roll coating machines.

Overhead applications may require mechanical fasteners.

#### ADVANTAGES

- CP-126 adhesive is water-based for personnel safety; it contains no solvents and presents no fire hazard during application.
- Clean up with water is quick and easy.

#### CERTIFIED

- Meets NFPA Standard 90-A & 90-B 25/50 requirements
- This product has been tested according to ASTM E84 (Surface burning Characteristics of Building Materials)
- This product meets the requirements of ASTM C916, Type II (ASC-A-7001, Type II)
- Meets the requirements of:
  - MAS Certified Green®
  - California Dept. of Public Health Standard Method v1.2
  - VOC Emissions and Content requirements to contribute to **LEED v4** EQ Credit: Low Emitting Materials – Adhesives and Sealants
  - Collaborative for High Performance Schools EQ 7.1

VOC Content: <40 g/l, less water and exempt solvent, analytically determined by EPA Method 24 (Theoretical VOC: 0 g/l with no added VOC components)

#### COLOR

Cream

#### WET WEIGHT (ASTM D1475)

10.1 lbs./U.S. gal. (1.2 kg/liter)

#### AVERAGE NON-VOLATILE (ASTM D2369)

54% by volume (63% 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.  
Single Surface: 0 to 15 minutes  
Contact Bond: 15 minutes to 2 hours

#### COVERAGE

Coverage is dependent upon substrate, film thickness, and machine settings.

**Spray Application:** 300 – 600 sq. ft./gal. (7.4 – 14.7 m<sup>2</sup>/l)

**Roller and Brush:** 150 – 600 sq. ft./gal. (3.7 – 14.7 m<sup>2</sup>/l)


#### CLEAN UP

Hot, soapy water (wet) or xylene (dry)

#### WET FLAMMABILITY

No flash to boiling 212°F (100°C)

#### SURFACE BURNING CHARACTERISTICS ASTM E84

|   |                                 |   |
|---|---------------------------------|---|
|  | ADHESIVES                       |   |
|   | SURFACE BURNING CHARACTERISTICS |   |
| Applied to Inorganic Reinforced Cement Board  |                                 |   |
| Flame Spread:   |                                 | 0 |
| Smoke Developed:  |                                 | 0 |
| Tested as applied at a coverage rate of 200 ft <sup>2</sup> /gal                    |                                 |   |
| 312U  |                                 |   |



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## **ADHESION OF INSULATION TO METAL DUCTWORK**

All glass fiber (or mineral fiber) insulation shall be adhered to the underlying metal (or metal ductwork) with CP-126 adhesive prior to final securement with specified mechanical fastening devices. The adhesive shall be applied at a coverage rate between 150 and 600 sq. ft./U.S. gal. (3.7 to 14.7 m<sup>2</sup>/liter).

## **Application Guide and Suggested Procedures**

### **1. SAFETY PRECAUTIONS**

CP-126 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**

CP-126 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 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**

CP-126 adhesive may be applied by brush, roller, spray and/or duct liner spray machine. The product is easily applied by low-pressure, air-assisted spray equipment commonly used throughout the industry, or even by airless spray equipment.

100% coverage of the metal or insulation surface is required in order to obtain the best possible adhesion.

**For porous insulation or to porous underlying substrates,** press insulation firmly into place immediately after application of CP-126 adhesive, or up to 15 minutes after application while adhesive is still wet.

**For contact bond application,** apply CP-126 adhesive to the metal surface at 350 – 450 sq. ft./gal. (8.6 – 11.0 m<sup>2</sup>/l). Coat the insulation surface at 120 – 180 sq. ft./gal. (2.9 – 4.4 m<sup>2</sup>/l). Allow the adhesive to tack fully and allow most of the water to escape, 20 – 40 minutes depending on temperature and humidity. Position the two mating surfaces together and apply pressure to assure intimate contact. A hand roller is suitable for this purpose. Alternately apply the adhesive to the metal surface at a rate of 120 – 180 sq. ft./gal. (2.9 – 4.4 m<sup>2</sup>/l), then press the insulation into the wet adhesive. Immediately remove the insulation and allow the water to fully flash from both surfaces (30 – 120 minutes). Reinstall insulation to surface using firm pressure over the entire surface.

### **4. SPRAY EQUIPMENT**

CP-126 adhesive can be applied using a variety of conventional air atomizing and airless spray equipment. For spray equipment information, please consult Airless Spray Recommendations or contact your spray equipment supplier. Average viscosity range: 8,000 – 15,000 cps. Before using for the first time, existing spray systems must be completely cleaned and free of the old adhesive and solvents. Corrosion resistant pumps and fittings are suggested.

## **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 twelve months from date of shipment to the original purchaser or as otherwise provided on the certificate of analysis.

**For professional use only. Keep out of reach of children.  
Consult Safety Data Sheet and container label for further information.**