

## About Hart & Cooley Roller-Type Adhesive

Hart & Cooley Roller-Type Adhesive is a high tack, rapid setting water-based adhesive designed for bonding low density (up to 3 lb/ft<sup>3</sup>) duct liner, duct wrap, and fibrous glass insulations to painted or unpainted steel, galvanized or aluminum surfaces. It is also ideal for bonding fibrous glass insulation to concrete, block and other masonry surfaces in building construction.

Hart & Cooley Roller-Type Adhesive is a solvent free, very low VOC synthetic elastomer emulsion. It is non-flammable when wet and fire-resistive when dry. It can be applied to either the metal or the insulation. The dry film stays moisture resistant. It 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 to metal.

Hart & Cooley Roller-Type Adhesive is produced under the classification and follow-up service of Underwriter's Laboratories, Inc. and meets ASTM C 916 Type II and NFPA 90A and 90B 25/50 requirements. It contains no asbestos, lead, mercury or mercury compounds.

## Physical Properties

**Application Consistency:** Spray, Brush or Roller

**Average Weight (ASTM 1875):** 10.0 lbs/gal (120 kg/l)

**Average Non-Volatile (ASTM D 2369):** 53% by volume (61% by weight)

### Bonding Time Range:

Wet Bond: 0 to 15 minutes

Contact Bond: 15 minutes to 2 hours

### Coverage Range:

Spray Application: 300 to 600 ft<sup>2</sup>/gal (7.4 to 14.7 m<sup>2</sup>/l)

Roller and Brush: 150 to 250 ft<sup>2</sup>/gal (3.7 to 6.1 m<sup>2</sup>/l)

**Service Temperature Limits:** -20°F to 200°F (-29°C to 98°C)

**Wet Flammability (ASTM D 3278):** No flash to boiling, 212°F (100°C)

### Surface Burning Characteristics (ASTM E 84):

Flame Spread: 0

Smoke Developed: 0

Coverage rate of 200 ft<sup>2</sup>/gal (4.9 m<sup>2</sup>/l). Applied to 1/4 in (6.4 mm) inorganic reinforced cement board.

The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

Container Size	Product Number
5 gallon	ADR05

JOB NAME: _____	SUBMITTED BY: _____	DATE: 4/30/03	SD-7035
LOCATION: _____		<b>ADR</b> Roller Type Adhesive	
ARCHITECT: _____			
ENGINEER: _____			
CONTRACTOR: _____			

## Application Guide for Hart & Cooley Roller-Type Adhesive

**Limitations:** Store and apply between 40°F (4°C) and 100°F (38°C), protect from freezing until dry. Avoid repositioning the insulation after initial placement. Not suggested for use with rollcoating machines. Always test plastic foam insulation for warpage when using a water-based adhesive. Not suggested for sealing vapor barrier jackets. Overhead applications may require mechanical fasteners.

**Material Preparation:** DO NOT THIN. Stir well. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use.

**Wet Bond Method:** Apply to the metal surface uniformly at 300 to 600 ft<sup>2</sup>/gal (7.4 to 14.7 m<sup>2</sup>/l). While still wet, press the insulation into place, making sure that complete contact is made with the applied adhesive.

**Contact Bond Method:** Apply to the metal surface at 350 to 450 ft<sup>2</sup>/gal (8.6 to 11 m<sup>2</sup>/l). Coat the insulation surface at 120 to 180 ft<sup>2</sup>/gal (3 to 4.4 m<sup>2</sup>/l). Allow the adhesive to tack fully and allow most of the water to escape (20 to 40 minutes depending on temperature and humidity). Position the two mating surfaces together and apply pressure to assure sufficient contact. A hand roller is suitable for this purpose.

**Brush or Roller Application:** Use clean equipment suitable for water-based paints.

**Spray Application:** It may 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: 11,000 to 18,000 cps. Before using for the first time, clean existing spray systems of old adhesive and solvents. Corrosion resistant pumps and fittings are suggested.

**Clean-Up:** To clean up, use hot soapy water if still wet. When dry, use xylene (flammable) or chlorinated solvent (nonflammable).

### Underwriters Laboratories Inc. Listed.

Hart & Cooley Roller-Type Adhesive is produced under the classification and follow-up service of Underwriter's Laboratories, Inc. and meets NFPA 90A and 90B 25/50 requirements. Data is reproduced from Underwriter's Laboratories, Inc., Building Materials Directory.

#### Surface Burning Characteristics

1/4 in (6.4 mm) Inorganic  
Reinforced Cement Board

Surface Flame Spread	0
Surface Flame Spread	0
Number of Coats	1
Tested as applied at a 200 ft <sup>2</sup> /gal (4.9 m <sup>2</sup> /l)	



IMPORTANT: Hart & Cooley Inc., warrants that each of its products will be manufactured in accordance with specifications in effect on the manufacture date. HART & COOLEY INC. MAKES NO OTHER WARRANTIES AND EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at Hart & Cooley Inc. option, refund of the purchase price. HART & COOLEY INC. ACCEPTANCE OF ANY ORDERS FOR THIS PRODUCT IS EXPRESSLY CONDITIONAL UPON PURCHASERS' ASSENT TO THE TERMS ON THE APPLICABLE INVOICE.

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 your requirements. The warranted shelf life of Hart & Cooley Inc. products is six months from date of shipment to the original purchaser. For industrial use only. Keep out of reach of children. Consult Material Safety Data Sheet and container label for further information.

JOB NAME: _____	SUBMITTED BY: _____	DATE: 11/25/03	SD-7036
LOCATION: _____		<b>ADR</b> Roller Type Adhesive	
ARCHITECT: _____			
ENGINEER: _____			
CONTRACTOR: _____			