

Product Data Sheet TIC 5010 Aqueous Elastomeric Adhesive

Description

TIC 5010 Aqueous Elastomeric Adhesive is a water based adhesive designed for bonding low density (up to 0.05 Kg/ℓ) duct liner, duct wrap and fibrous glass insulations to painted or unpainted steel, galvanized or aluminum surfaces.

TIC 5010 Aqueous Elastomeric Adhesive is a solvent free, very low VOC synthetic elastomeric 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.

TIC 5010 Aqueous Elastomeric Adhesive meets ASTM C 916, Type II requirements.

TIC 5010 Aqueous Elastomeric Adhesive is ideal for bonding fibrous glass insulation to concrete, block and other masonry surfaces in building construction.

TIC 5010 Aqueous Elastomeric Adhesive contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	White / Blue	TSTM-01
Application	Brush, spray or roller	TSTM-06
Density	1.16 ± 0.05 Kg/ℓ(9.7 lbs/gal)	ASTM D 1475
Volume non-volatile	53 ± 1 %	ASTM D 1644
Weight non-volatile	61 ± 1 %	ASTM D 1644
Coverage	0.35 Kg/m ² (0.30 ℓ/m ²) Dried film thickness: 0.16 mm	TSTM-07
Bonding time	0 ~ 15 minutes	TSTM-17
Peel strength	> 9.0 g/mm	ASTM D 903
Service temperature limits	(Temperature at coated surface) -29 °C ~ 98 °C (-20 °F ~ 200 °F)	TSTM-04
Wet flammability	≥ 100 °C (212 °F)	ASTM D 3278
Surface burning characteristics	Classification: CLASS A Flame spread: 0 (0~25) Smoke developed: 0 (0~450) Surface: Applied over fiber reinforced cement board at a coverage rate of 40 sq.ft/gal (1.0 m ² /ℓ)	ASTM E 84

Limitations

Store and apply between 4 °C (40 °F) and 38 °C (100 °F), protect from freezing until dry.

Not suggested for sealing vapor barrier jackets.

Always test plastic and painted materials for compatibility when using a solvent base product.

Overhead applications may require mechanical fasteners.

Application

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Material Preparation

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

Application

1. **Brush/Roller** - Use clean equipment suitable for use with water base paints. Clean all surface thoroughly, apply a uniform coverage of adhesive to one surface at 3.7 ~ 6.1 m²/ℓ (wet film thickness: 0.27 ~ 0.16 mm).
2. **Spray** - TIC 5010 Aqueous Elastomeric Adhesive can be applied using a variety of conventional air atomizing and airless spray equipment. The coverage of adhesive to one surface at 7.4 ~ 14.7 m²/ℓ (wet film thickness: 0.14 ~ 0.07 mm). For spray equipment information, please consult Airless Spray Recommendations or contact your spray equipment supplier. Average Viscosity Range is 11,000 - 18,000 cps.

Clean-up

Use warm (not hot) soapy water before product dries. When dry use mineral spirits (flammable) or chlorinated solvent (non flammable)

Note

Important: We make no other warranties and expressly disclaim 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 our option, refund of the purchase price. Our acceptance of any orders for the product is expressly conditional upon purchaser's assent to the terms on the applicable invoice.

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 perform 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.

TIC CORPORATION

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