



Thermal Insulation Chemicals

TIC CORPORATION

Product Data Sheet

TIC 2050

Anti-Abrasive Coating

Description

TIC 2050 Anti-Abrasive Coating is a high-solids, water-based, fire resistive, bore coating for the inner surfaces of cellular glass, rigid polyurethane, urea-formaldehyde or polyisocyanate foam insulation to reduce abrasion from vibration and temperature changes of piping or vessels. Its strong adhesive qualities through a wide temperature range permit its use on extremely low temperature and dual temperature equipment. It is light in color to facilitate application and ensure full coverage of the insulation surface.

TIC 2050 Anti-Abrasive Coating contains no asbestos, lead, mercury or mercury compounds.

Properties

Property	Specification	Test method
Color	White	TSTM-01
Application	Brush or Spray	TSTM-06
Density	1.33 ± 0.05 kg/ℓ	ASTM D 1475
Volume non-volatile	52 ± 1 %	ASTM D 1644
Weight non-volatile	70 ± 1 %	ASTM D 1644
Coverage	0.51 ~ 0.77 kg/m ² (0.38 ~ 0.58 ℓ/m ²) Dried film thickness: 0.2 ~ 0.3 mm	TSTM-07
Drying time	Set to touch: 1 hour Dry through: 4 ~ 5 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -196 °C ~ 93 °C (-321 °F ~ 200 °F)	TSTM-04
Wet flammability	≥ 100 °C (212 °F)	ASTM D 3278
Surface burning characteristics	Classification: CLASS A Flame spread: 10 (0~25) Smoke developed: 10 (0~450) Surface: Applied over fiber reinforced cement board at a coverage rate of 25 sq.ft/gal (0.61 m ² /ℓ)	TSTM-14

Limitations

Store and apply between 4 °C (40 °F) and 38 °C (100 °F).

Protect from freezing until dry.

Remove product from metal piping or other pieces of insulation while it is still wet.



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Application Guide

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Material Preparation

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

Application

Apply at 100 to 150 square feet (2.5 to 3.7 ℓ/m^2) to clean, dry inner surface or bore of cellular glass insulation. Allow to dry before installing insulation.

- 1. Brush** - Use clean paintbrushes (suitable for water-base paints). Apply in a single heavy, full brush coat at recommended coverage. Avoid cross-cross brushing.
- 2. Spray** - TIC 2050 Anti-Abrasive Coating can be used by variety of spray equipment. For spray equipment information, please contact your spray equipment supplier. Average Viscosity Range is between 20,000 - 30,000 cps. Before using for the first time, existing spray systems must be completely cleaned and free of the old coatings and solvents. Corrosion resistant pumps and fittings are suggested.

Clean-up

For clean up, use warm soapy water if still wet it. 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 shelf life can be affected by storage and handling conditions. When products are stored in the original unopened container in an enclosed area and protected from contamination, moisture and extreme temperatures, the warranted shelf life is twelve months from the date of shipment to the original purchaser.