



Thermal Insulation Chemicals

# TIC CORPORATION

## Product Data Sheet

## TIC 6070

## Fibrous Adhesive

### Description

**TIC 6070 Fibrous Adhesive** is a sodium silicate based incombustible adhesive for bonding calcium silicate and expanded perlite thermal insulation to it and to nonporous surfaces. It offers maximum adhesion and optimum working qualities and it forms a hard, brittle, incombustible film.

**TIC 6070 Fibrous Adhesive** can also be used for lagging high temperature alkali resistant cloth on high temperature insulation.

**TIC 6070 Fibrous Adhesive** contains no asbestos, lead, mercury, or mercury compounds.

### Properties

Property	Specification	Test method
Color	Beige	TSTM-01
Application	Brush, Trowel	TSTM-06
Density	1.57 ± 0.05 kg/ℓ	ASTM D 1475
Volume non-volatile	55 ± 1 %	ASTM D 1644
Weight non-volatile	64 ± 1 %	ASTM D 1644
Coverage	2.12 kg/m <sup>2</sup> (1.35 ℓ/m <sup>2</sup> ) Dried film thickness: 1.0 mm	TSTM-07
Bonding time	0 ~ 5 minutes	TSTM-17
Service temperature limits	(Temperature at coated surface) 4 °C ~ 650 °C (40°F ~ 1202°F)	TSTM-04
Wet flammability	≥ 100 °C (212 °F)	ASTM D 3278

### **Limitations**

Store and apply between 4 °C (40°F) and 38 °C (100°F), and protect from freezing until dry. Since the dry adhesive film is soluble in water, it should not be used where moisture will be encountered.

Because of its sodium silicate base, this product is not recommended for use with glass fiber or other alkali sensitive insulations.

Primed or painted metal surfaces should be tested for compatibility.

If used between impermeable surfaces, drying time will be extended.



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## Application Guide

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### Material Preparation

Stir well, DO NOT THIN. Do not use sticks or boards which would splinter or otherwise contaminate the product. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use.

### Application

Remove any dust from the surfaces to be bonded. To both surfaces of insulation apply a coat of TIC 6070 Fibrous Adhesive by brush or trowel at a coverage of 25 to 40sq.ft/gal (0.61-0.98 m<sup>2</sup>/ℓ). Allow an open time of 0 to 5 minutes to develop full tack. Place the adhered surfaces together, applying pressure to assure complete and uniform contact.

1. **Brush** - Use a clean paintbrush and apply evenly at recommended coverage. Bond immediately with firm pressure.
2. **Trowel** - Use steel trowel. Apply evenly at recommended coverage. Bond immediately with firm pressure.

### Clean-up

Clean brushes and equipment with water

### 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 performed 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.