

Product Data Sheet

TIC 5070

PU Adhesive

Description

TIC 5070 PU Adhesive is two-component adhesive, based on polyurethane which useable low and high temperature system.

TIC 5070 PU Adhesive is applicable to the surfaces that require soundproof, and can form a film excellent in transmission loss characteristic, durability, air tightness, adhesiveness and flexibility.

TIC 5070 PU Adhesive is usable for piping, for ducts, compressors, pumps, flanges and valves in the oil /petrochemical field, or other field which require sound proof.

TIC 5070 PU Adhesive contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	Gray (part A, paste) / Brown(part B, paste) / Gray (mixed)	TSTM-01
Application	Trowel	TSTM-06
Density	Part A - 1.62 ± 0.05 Kg/ℓ Part B - 1.22 ± 0.05 Kg/ℓ Mixed (A&B) - 1.51 ± 0.05 Kg/ℓ	ASTM D 1475
Volume non-volatile	99 ± 1 % (mixed)	ASTM D 1644
Weight non-volatile	99 ± 1 % (mixed)	ASTM D 1644
Coverage	4.58 Kg/m ² (3.03 ℓ/m ²) Dried film thickness: 3.0 mm	TSTM-07
Mixing ratio	Weight - part A : part B = 5 : 1	TSTM-16
Pot life	50 ~70 minutes(25±2°C, 50±2% RH)	TSTM-09
Drying / curing time	Set to touch: 100 minutes Dry through: 10 hours Curing time: 20 hours Maximum strength: 48 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -57 °C ~ 200 °C (-71°F ~ 392°F)	TSTM-04
Bonding strength	≥ 20 MPa (Metal – Metal) ≥ 6 MPa (Aluminum – Aluminum)	ISO 4587
Tensile strength/Elongation	≥ 13 MPa ≥ 100 %	ASTM D 412

Limitations

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

Proper operational temperature is about 20 °C ~ 25 °C (68°F ~ 77°F) and surface of adhesion should be well dried.

Application

Material Preparation

DO NOT THIN. Apply only to clean surface.

Application

Apply by trowel to clean dry surfaces only. Metal surfaces should be solvent cleaned and allowed to dry.

1. **Application** - Apply at 20 °C ~ 25 °C (68°F ~ 77°F) ambient temperature. At temperatures above 25 °C (77°F), the pot life will be less than 50 ~ 70 minutes. At high temperatures TIC 5070 PU Adhesive should spread out as soon as possible immediately after mixing, because of short pot life.
2. **Trowel** - Use a good trowel, spread out adhesive properly, and press adhered face completely for adhere to each other. When adhere to duty and hole surface, the coverage will be more than normality.

Clean-up

Before adhesive cures, clean tools and equipment with chlorinated solvent (non-flammable) or mineral spirits (flammable). Dried TIC 5070 PU Adhesive is extremely difficult to remove.

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 six months from date of shipment to the original purchaser.

TIC CORPORATION

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