

Description

TIC 6090 LNG Adhesive is epoxy system product consists of main liquid and hardener, which contains equal quality and same mixing condition of thixotropic agents.

TIC 6090 LNG Adhesive is used to LNG STORAGE TANK, VAPOUR BARRIER of LNG CARRIER, and EPOXY GLUE with its 100 % of solid and non-toxicity without smells of solvent.

TIC 6090 LNG Adhesive is suitable product for cryogenic and low W.V.P Insulation System with its epoxy system features, which has strong durability to severe weather circumstance.

TIC 6090 LNG Adhesive contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	Yellow (part A, paste)/ Blue (part B, paste) / Green (mixed)	TSTM-01
Application	Trowel	TSTM-06
Density	Part A - 1.25 ± 0.05 Kg/ℓ Part B - 1.55 ± 0.05 Kg/ℓ Mixed (A&B) - 1.40 ± 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	2.83 Kg/m ² (2.02 ℓ/m ²) Dried film thickness: 2.0 mm	TSTM-07
Mixing ratio	Weight - part A : part B = 5 : 4	TSTM-16
Pot life	60 ~ 90 minutes(25±2°C, 50±2% RH)	TSTM-09
Drying / curing time	Set to touch: 2 hours Dry through: 4 hours Curing time: 36 hours Maximum strength: 72 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -196 °C ~ 121 °C (-321°F ~ 250°F)	TSTM-04
Water vapour permeance	≤ 0.002 perms (DFT 2.0 mm)	ASTM E 96
Lap shear strength	≥ 10 MPa (Metal – Metal)	ISO 4587

Limitations

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

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

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

Make certain this product is completely dry and the area free from solvent odor if food is involved.

Application

Material Preparation

Stir well, DO NOT THIN. Not need to prime aluminum or galvanized metal. Apply only to clean, dry, dust-free surface. Keep container closed when not in use to prevent solvent evaporation. Do not use pumps or equipment that has aluminum parts in contact with the adhesive.

Application

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

1. **Application Temperature** - Apply at 20 °C to 25 °C (68°F to 77°F) ambient temperature. At temperatures above 25 °C (77°F), the pot life will be less than 90 minutes. To prolong pot life at high temperatures, TIC 6090 LNG Adhesive should spread out as much as possible immediately after mixing.
2. **Trowel** - Use a good trowel (suitable for chlorinated solvents), making strokes as long as possible. Do not overwork.

Clean-up

Before adhesive cures, clean tools and equipment with chlorinated solvent (non-flammable) or mineral spirits (flammable). Dried TIC 6090 LNG 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 performed 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

Headquarter & Factory: 106, 5sandan-2ro, Seongnam-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do Province, Republic of Korea Tel +82 41 558 4252(Rep), Fax +82 41 558 9360, e-mail tic@tickorea.com

www.tickorea.com