



No. #12-0438

TIKI VS9066

Elastomeric Cryogenic Coating

DESCRIPTION

TIKI VS9066 is a two-component elastomeric coating and adhesive for use in cryogenic applications as a vapour stop sealant / material.

It is suitable for application to PU foam, PIR foam, cellular glass, fibrous glass and aerogel insulations in conjunction with aluminum, steel, wood and masonry construction materials.

USES

- It is used as vapour stop material in cryogenic pipelines & equipment insulation.
- It is suitable for use both as vapour barrier and adhesive in very low temperature applications requiring vapour tight insulation system.
- It is also used for bonding and sealing lap joints in plywood and metal and for glass cloth to itself and other surfaces.

ADVANTAGES

- It has good resistance to water vapour, moisture, and other gases.
- It contains no hazardous compounds of lead and mercury.

PROPERTIES

DENSITY (ASTM D 1475)	≥ 1.15 Kg/Ltr.
NON-VOLATILE (ASTM D 2369)	≥ 65 % by volume ≥ 73 % by weight
WET FLAMMABILITY (ASTM D93)	≥ 45°C
SERVICE TEMPERATURE LIMITS (TSTM 10) (Temp At Coated Surface)	-196°C to 125°C and up to 135°C (Intermittent)
WATER VAPOUR PERMEANCE (ASTM E96)	0.01 perms (0.0066 Metric Perms) @0.50 - 0.65 mm d.f.t

SURFACE PREPARATION

The surface to be treated should be dry and thoroughly cleaned to remove loose dust, foreign particles, oil, loose rust and other contaminants.

APPLICATION INSTRUCTION

TIKI VS9066 is supplied as two component product. The Component-B is added gradually to the Component-A while mixing using air driven mechanical stirrer until homogeneous and uniform coloured mix is obtained.

For Vapour Barrier Adhesive Applications: Apply first coat @0.40 ltr/m² and allow to cure for 24 hours. Apply second coat @0.80 ltr/m² and embed insulation in to the adhesive after allowing 20 to 70 minutes open time, but before adhesive skins over, ensuring complete contact of insulation with adhesive.

For Vapour Barrier and / or Vapour Stop Applications: Apply on vertical surfaces of insulation up to 0.80 ltr/m². The application should extend 50 to 75mm on to the piping surface.

For Cryogenic Applications: Application of two coats with polyester mesh as reinforcement in between the coats is recommended. Embed the reinforcement into the first wet coat while maintaining overlap of 50mm. Smooth the application to avoid wrinkles. After 24 hours of application of first coat, apply second coat overlapping the first coat by 25mm.

Always allow application to fully dry to prevent entrapment of solvent between the surfaces. Do not apply between two impermeable surfaces or as exposed finished coating.

COLOUR (MIXED)

Black

APPLICATION CONSISTENCY

Applied by Brush/Spray/Roller

MIX RATIO

Part A: Part B = 1: 1 (By volume)

POT LIFE* @25°C

6 to 10 Hours

*Pot life reduces at temperature above 25°C

COVERAGE RANGE (TSTM 20)

1.20 to 1.40 l/m²
(For smooth non-porous surface. @ 1.20 to 1.42 mm w.f.t
Porous surface will require more qty.) Equal to 0.80 to 0.90mm d.f.t

BONDING TIME (TSTM 30)

30 to 70 Minutes

DRYING TIME** @25°C (ASTM D1640)

Through Dry < 24 hours
Full Cure < 1 weeks

**Drying time increases at temperature below 25°C.

CLEAN UP

Use suitable solvent for cleaning equipment and tools used for applying **TIKI VS9066**.

STORAGE

TIKI VS9066 must be stored under covered shed and protected from extremes of temperature, heat, spark, flame and sources of ignition. Keep container closed when not in use.

SHELF LIFE

Shelf life is 12 months when stored in original sealed condition. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

SAFETY PRECAUTIONS

As with all products used in insulation, care should be taken during use and storage of **TIKI VS9066** to avoid contact with eyes, mouth, skin and foodstuffs until product is fully cured or dried.

Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from flames, sources of ignition, sparks, children and animals. Reseal containers after use. Do not reuse containers for storage of consumable items.

Disclaimer: TIKI TAR INDUSTRIES warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture. While TIKI TAR endeavors to ensure that information given herein is correct to the best of our knowledge it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

We recommend that adequate tests be performed by you to determine if this product meets all of your requirements.

Note: Properties subject to change as per specific requirement.

Website: www.tikiinsulation.com

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ISO 17025: 2017

ISO 9001: 2015