tiki
INSULATION

- MASTICS
- COATINGS
- ADHESIVES
- SEALANTS

Protecting Integrity of Mechanical Insulation

ABOUT US

Tiki Tar Industries (Baroda) Limited (TTIBL) has been serving the industry since 1964, manufacturing and supplying speciality chemicals for Industry, Infrastructure, Roads, Waterproofing, Floor Coatings, Thermal insulation & Corrosion Protection.

Tiki Tar group companies include:

1) Tiki Tar Industries (Baroda) Ltd. (TTIBL): Manufacturer of High-performance Specialty Chemicals, Vapour Barrier Jacketing, Foils and Tapes for Hot, Cold, Dual Insulation, WaterProofing and Corrosion Protection.

2) Tiki Tar Danosa India Pvt. Ltd. (TIKIDAN): Manufacturer of WaterProofing, Floor Coating, Thermal and Acoustic Insulation materials in collaboration with Danosa, Spain.

3) Tiki Tar and Shell India Pvt. Ltd.: Manufacturer of Road & Construction products in collaboration with Royal Dutch Shell.

Tiki Tar has manufacturing facilities at multiple locations in India. TTIBL is a leading private sector company for processing & manufacturing various products including Elastomeric Mastics, Sealants, Adhesives, Paints, Vapour Barrier Jacketing, Tapes, Foils, Heat Transfer Cement & Epoxy Phenolic Coatings etc.

Tiki Tar is ISO 9001:2015 & NABL ISO/IEC 17025:2017 accredited and MSME compliant. Tiki Tar Industries has upgraded facilities to meet National & International Standards.

Tiki Tar products undergo strict quality control from procurement of raw materials to pre dispatch testing in NABL accredited in-house and third party laboratories. We maintain testing records for traceability and products are delivered supported with certificates of compliance.

Tiki Tar is committed to provide products & services of the highest order to valued customers. Over 60 years, Tiki Tar has evolved through a genuine passion for R & D & Innovation.

Tiki Tar believes Consistency in Quality and Ethical Business is Key to Success.

FROM THE HISTORY INTO THE FUTURE

A JOURNEY THAT IS EVOLVING AND CREATING NEW MILESTONES

1964

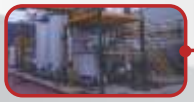
Established Tiki Tar (Mumbai Plant)

1979

Commenced Production at Halol Plant

1984

Became the first company to Introduce Bitumen Emulsion in India



1992

Commenced manufacturing operation in Pithampur, Indore

1997

Started Operations in Taloja

2000

Commenced Operations in Mangalore

2002

- Commenced operations in Vizag
- Secured Contract with Indian Oil for building and operating their plant

2007

Secured Contract from Bharat Petroleum for their CRMB and Emulsion Plant

2010

Supplied PMB to Buddha International Circuit- the first racetrack project

2011

Started Manufacturing Specialty Chemicals for Oil and Gas

2012

- JV with Danosa for waterproofing & building solutions
- Operating in India as Tiki Tar Danosa (TIKIDAN)

2019

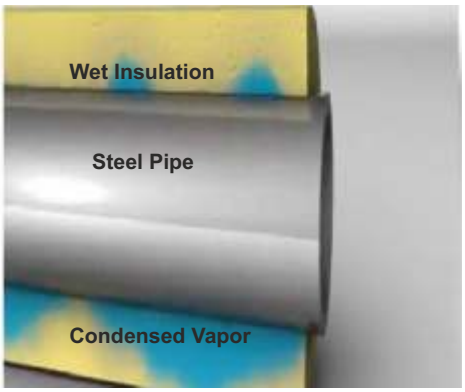
- JV with Shell for Bitumen and Pavement technology
- Operating in India as Tiki Tar and Shell India

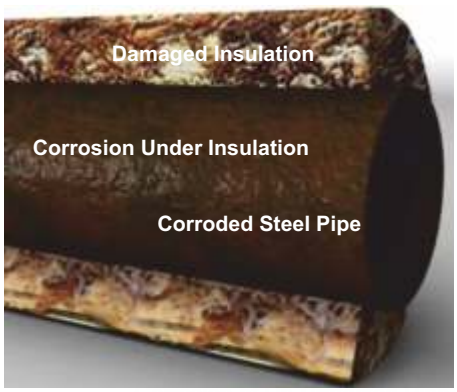
2024

Augmented focus on Overseas Market

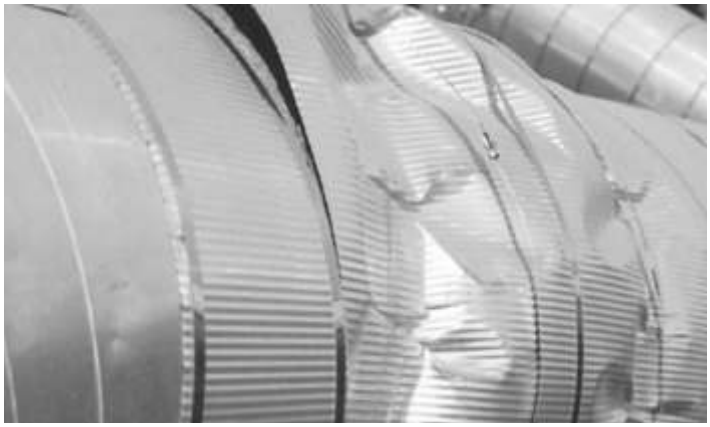
CORROSION UNDER INSULATION (CUI)

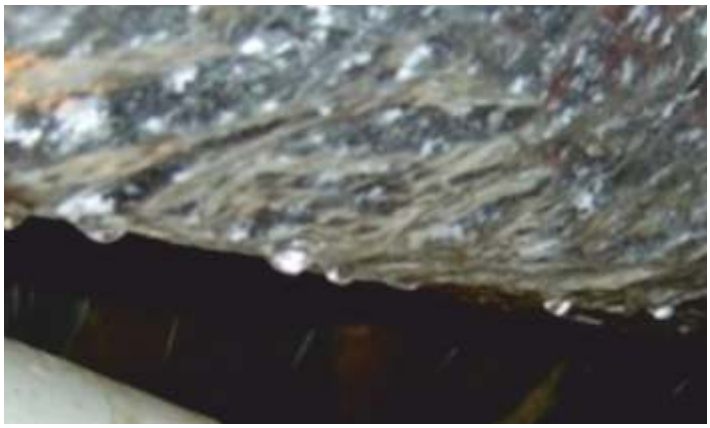
With the increase in industrialization and demand for energy, thermal insulation has assumed great importance for energy conservation, process stability, health safety and environment protection. Investment in providing quality thermal insulation systems is high. Protecting thermal insulation from water and vapour ingress is paramount for maintaining integrity, efficiency and long life.





CUI is one of the most critical issues. Ingress of Water or Vapour into insulation occurs through improperly sealed cladding, inadequate vapour barrier and mechanical damage to insulation. Water & Moisture carry chlorides & other radicals that attack steel & cause corrosion. Corrosion of steel manifests itself in a number of ways from thinning of sections to localized corrosion. Severe Corrosion can lead to safety incidents like fire, explosion, loss of assets & human life. Wet or moist insulation results in energy loss, compromised thermal efficiency, process stability, reduced productivity & plant life. Moreover, wet insulation causes microbial contamination & indoor air quality issues.





Effective sealing of Vapour & Moisture ingress with efficient Vapour Barriers, Vapour Stops, Joint Sealants and Adhesives is essential for prevention of CUI and uncontrolled heat transfer.

PREVENTING DAMAGE TO INSULATION STARTS AT DESIGN STAGE

The corroded steel being hidden under the insulation, it is difficult to locate corrosion without removal of insulation for inspection. Repair/replacement of corroded steel section or damaged insulation section requires long shutdown periods impairing plant efficiency & involving huge costs.

Tiki Tar manufactures state of the art insulation protection products for complete spectrum from high temperatures along the cold face of refractory linings in reactors, boilers & furnaces to cryogenic temperatures encountered in oil & gas installations, petrochemical plants, fertilizer plants, LNG terminals & Air Separation Units.

Tiki Tar has a wide range of specialty products for industrial & commercial applications.

The best solution is to protect thermal insulation system from ingress of moisture, water and aggressive media. Prevention is the most cost-effective approach to controlling CUI.

- **Fire Resistive Protective Coatings & Mastics (Vapour Barrier)**
- **Elastomeric Butyl Membrane (Vapour Barrier Jacketing)**
- **Multi-Layer Foil (Secondary Vapour Barrier)**
- **Vapour Barrier Tapes (To Seal the joints)**
- **Fire Resistive Adhesives (For Bonding Insulation to itself & steel and as Construction Adhesive)**
- **Elastomeric Cryogenic Coatings (Vapour Stops)**
- **Vapour Barrier Sealant (for Insulation Joints)**
- **Butyl Elastomeric based Sealant (Sheet Metal Sealant)**
- **Weather Barrier Mastic (Moisture Barrier/Breather Mastic)**
- **Neutral Cure Silicone Sealant (Weather Silicone Sealant)**
- **Fire Resistive Polymer Based Sealant (Duct Sealant)**
- **Heat Transfer Cement (For ST or EHT piping and equipment)**
- **Emulsion (Clay Type Emulsion For Steel Protection)**
- **HD Mastic (Multipurpose Ready Mix Anti Corrosive Paint)**
- **Epoxy Phenolic Coating - (Internal Coating on shell at elevated temperatures)**

These innovative products are specially formulated and developed for use in Hot, Cold and Dual Temperature Insulation on vessels, pipelines, storage tanks, equipment, ductwork, boilers & furnaces etc., encountered in Refineries, Petrochemical Complexes, Oil and Gas Industry, Power Plants, Fertilizer Plants, Chemical Process Industry, Cold Storages, Pharmaceutical units, Chiller plants and HVAC etc. for bonding, sealing and protection ensuring optimal maintenance of insulation & operational efficiency through the life cycle of insulation.

TIKI TAR products can be tailored to meet customized needs and designed for specific service conditions.

All compatible products are supplied to provide comprehensive solutions for most industrial and commercial insulation needs that does not absorb water or hold moisture. Once applied, the product cures to harden without noticeable shrinkage. The cured products are tough and flexible enough to absorb stresses due to thermal cycles. The insulation integrity is never compromised. The products are manufactured to special fire resistive grade and possess excellent fire resistive properties. By inhibiting the flame spread when exposed to fire, it contributes to the safety of installation. The fire resistant characteristic of our products, when tested as per ASTM E-84, delivers superior protection to personnel, property & environment.

FIRE RESISTIVE WEATHER BARRIER MASTIC & COATING

In a process industry, the heated pipelines, vessels, and equipment are thermally insulated for process stability and personnel protection. If insulation is not properly sealed, water and moisture laden with corrosive elements can enter insulation during rain, hail and wash down process, making the insulation wet. This water evaporates into steam causing a surface temperature well above the designed 60°C or less and results in excessive heat loss affecting the process efficacy and stability.

In order to protect insulation from entry of water and atmospheric residues a breathable weather barrier that allows the water to escape without condensing is highly recommended.

Weather barrier mastic is water based polymer in trowelable consistency designed to provide protection to insulation. It allows the trapped water vapour to pass through it, while repelling water in liquid state.

Wet insulation has higher thermal conductivity

1 Kg. of water entering the insulation would require 0.30 Kg. coal or 0.18 litres petroleum fuel to vapourize, causing energy loss and affecting process stability.

On dual temperature systems or during off periods or on cold cycles or during shutdown and maintenance when hot processes are subjected to condensation, the insulation system should have adequate moisture barrier between insulation and jacketing.

Engineering standards mandate providing a moisture barrier layer over fibrous insulation on all equipment and piping operating at or below 175°C/125°C before metal jacketing.

TIKI KCP9 applied in 2 application with reinforcement mesh in between. Supplied in two colors to differentiate between each layer.

1% increase in wetness of insulation can reduce Insulation thermal efficiency by 7.5%. This statistics has been co rmed by ASHRAE (American Society of Heating, Refrigeration & Air-conditioning Engineers), the environmental protection agency & the department of energy.

TIKI TAR WEATHER & VAPOUR BARRIER MASTICS & COATINGS

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI KCP9/KCP9+	Tough And Durable Weather Resistant Mastic	Weather Proofing and Heavy Duty Protection of Thermal Insulation in HOT, COLD and DUAL TEMPERATURE SERVICE.	**-45°C to 125°C**
TIKI K3500	High build Polymer Based Protective Mastic	Heavy Duty Protective Mastic on Thermal Insulation & Cementitious Finish in Hot and Dual Temperature Service. for both Indoor and Outdoor environments.	**-45°C to 125°C**
TIKI K9007	Durable & Breathable Protective H.I. Mastic based on Asphalt Emulsion	Protecting Thermal Insulation installed outdoors from water penetration while allowing the Water Vapour to pass through preventing condensation and heat loss through insulation.	**-35°C to 95°C**
TIKI K4650/4651	Polymer based Fibrated Fire & Weather Resistant Breathable Mastic	Weatherproofing & Protective Coat over rigid board thermal insulations including polystyrene, polyurethane, polyisocyanurate in hot & dual temperature service installed indoor & outdoor.	**-45°C to 125°C**
TIKI K404	Acrylic Polymer based Weather Resistant Coating for protection of Cellular Glass Insulation	Heavy duty protective coat on cellular glass insulation for outdoor and indoor, hot cold & dual temperature service.	**-35°C to 85°C upto 110°C Intermittent**
TIKI HTM500	Tough Durable H.T. Mastic	Used on inner side of steel casings of boilers, furnaces, stacks, flues in contact with mineral wool, refractory materials & ceramic fiber lining or air gap to protect the casing from moisture & corrosive chemicals. seal air filtration through bolted casing joints.	**10°C to 80°C Intermittent temperature up to 100°C**
P6044/6045	High Solid Vapour Barrier Protective Mastic	Used On Heated Lines, Boiler, & Furnace Shells, Chimneys, Incinerators on both steel & concrete surfaces to protect from influence of moisture, vapour laden with corrosive flue gases and providing protection from corrosion.	**-25°C to 180°C**
TIKI F6030/6035	High Build Fire Resistive Mastic	Prevention of Water ingress into Insulation during off periods or cold cycles on Vessels, Equipment, Tanks and Piping in Heated, Intermittent or Dual Temperature Service.	**-45°C to 95°C**

FIRE RESISTIVE VAPOR BARRIER MASTIC & COATING

For an industrial storage & process facility operating at below-ambient temperature, vapour ingress prevention by providing a layer of Vapour Barrier on the warmer side of insulation is a primary requirement. It is very important to prevent condensation of water vapour present in the atmosphere at cold insulation surfaces.

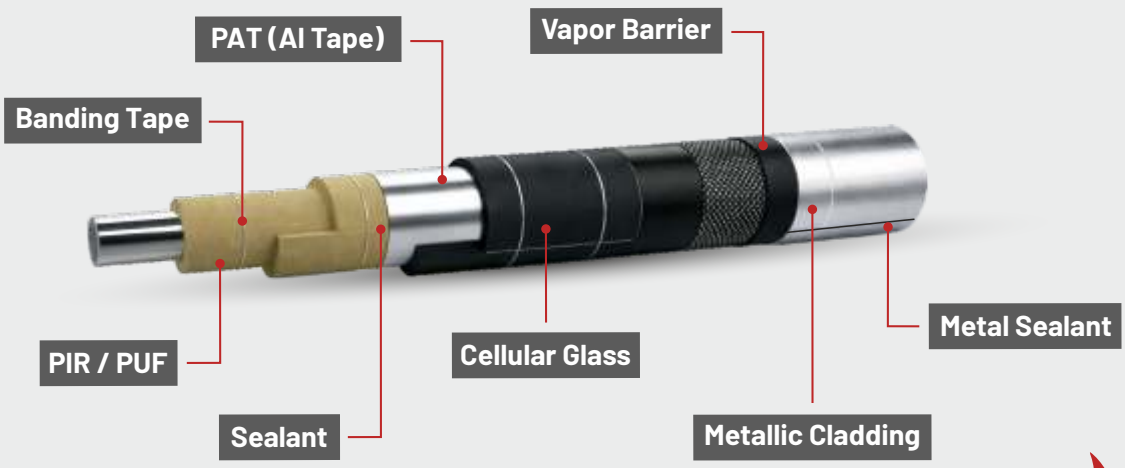
The range of Vapour Barriers are specially formulated and manufactured at TIKI TAR state of art manufacturing facilities. to meet project specific service temperature, flre resistance and vapour permeability requirements. The higher the anticipated vapour pressure difference across insulation system, the Vapour Barrier having lower vapour permeance values are chosen.

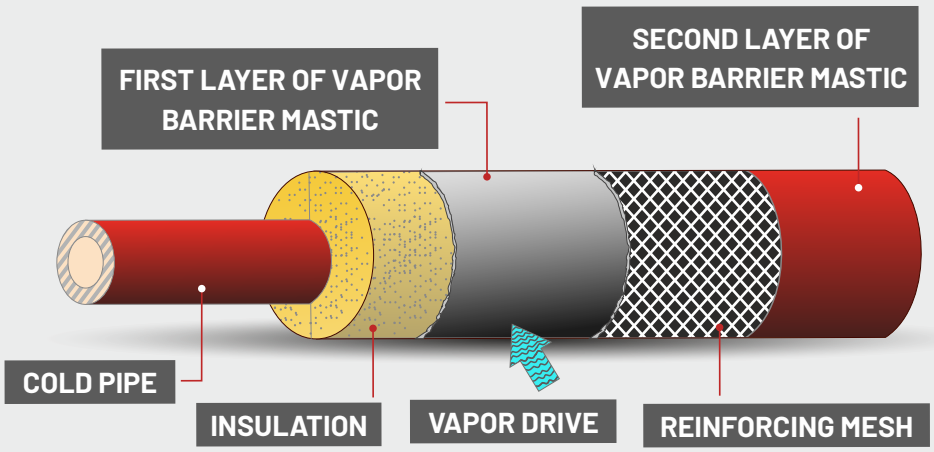
For systems operating at below-ambient temperatures, condensation control is primary performance requirement.

TIKITAR Vapour Barriers are formulated in liquid or paste consistency to suit application by brush or trowel on various insulation surfaces, at specified thickness, normally applied in two layers with open mesh reinforcement embedded within the first layer of wet Vapour Barrier followed by second layer of Vapour Barrier fully covering the mesh reinforcement, the reinforcing mesh in most cases being open weave 10x10 or heavy duty 5x5 fiberglass or synthetic fibre mesh or woven canvas or fiberglass cloth, prevents cracking over seams or area of movement, and improves the overall strength of the application. The smooth thixotropic consistency eases application and ensures uniform coverage free of pin hole or cracks.

Even a minor damage to the applied Vapour Barrier would result in vapour ingress hampering its long term performance. Hence, Vapour Barrier, whether applied indoor or outdoor, after hardening should always be protected from weather, mechanical abuse and foot traffc by covering it with metal jacketing or other specified cladding materials. The jacketing / cladding laps should be sealed with Vapour Barrier Sealant, taking care to ensure that the screws used for fixing of jacketing / cladding do not penetrate or damage the underlying Vapour Barrier.

Cold / Hot Insulation with Vapor Barrier Mastic on Warmer side.





TIKI TAR FIRE RESISTIVE VAPOUR BARRIER MASTICS & COATING

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI M6038/6039	Flexible Elastomeric Vapour Barrier Mastic	Protection of insulation against ingress of vapour and moisture. Vapour Barrier Mastic finish for protecting outdoor thermal Insulation from extremes of weather conditions.	**-38°C to 125°C**
TIKI K3080/3080AF	Water based Fire Resistive Vapour Barrier based on Modified Polymer	Vapour sealing of All Service Jackets (ASJ), Foiled Reinforced Kraft Paper (FRK), Foil Scrim Kraft jackets (FSK) and Board Facings at joints, laps and over staple and weld pin punctures.	**-30°C to 125°C**
TIKI K3090/3091	Polymer Based Fire Resistive Flexible Vapour Retarder Mastic with High solids	Heavy Duty Industrial use Vapour Retarder over Thermal Insulations including polystyrene foam installed on pipes, ducts & equipment operating below ambient temperature. Vapour Sealing of All Service Jackets (ASJ), Foiled Reinforced Kraft Paper (FRK), Foil Scrim Kraft Jackets (FSK) and Board Facings at joints, laps and over staple and weld pin punctures.	**-33°C to 125°C**
TIKI F6075	Fire Resistive Primary Vapour Barrier Aluminum Mastic	Reduce Transmission of Water Vapour towards the Cold Surface. Protect Insulation including Cork, PU, PIR, Phenolic and Cellular Glass Foam applied on Equipment & Piping operating at below Ambient Temperatures against Weather and Industrial Environments.	**-40°C to 125°C**
TIKI F6090/6091	Tough and Flexible Primary Vapour Barrier Fire Resistive Mastic without standing resistance to Chemicals and Aggressive Weather for Cold Insulation	Protecting Outdoor Thermal Insulation from extremes of Weather Conditions. Vapour Barrier for Protecting Low Temperature Thermal Insulation on Tanks, Vessels, Equipment, Pipeline, Ductwork, Fittings etc., from Ingress of Corrosive Vapours.	**-50°C to 125°C**
TIKI F6095/6096	Vapour Barrier Elastomeric Brushable Coating	Protecting Outdoor Thermal Insulation from extremes of weather conditions specially spray Polyurethane and flexible cellular tubing and sheets. Protecting low temperature thermal insulations.	**-50°C to 125°C**
TIKI P6025/6026	Tough and Durable Primary Vapour Barrier C.I. Mastic	Prevention of entrance of Water Vapour into the Insulation during Off Periods or Cold Cycles on Heated Lines and Equipment in Intermittent or Dual Temperature Service. Adhesive for fixing Asphaltic Felt Vapour Barrier Jacket on Pipe & Duct Insulation.	**-50°C to 105°C**

TIKI TAR FIRE RESISTIVE VAPOUR BARRIER MASTICS & COATING

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI P6505	Tough and Durable High Build Fire Resistive Vapour Barrier C.I. Mastic	Prevention of entrance of Water Vapour into the Insulation during Off Periods or Cold Cycles on Heated Lines and Equipment in Intermittent or Dual Temperature Service. Vapour Barrier Mastic for low temperature insulation where insulation used is not affected by mild solvents.	**-45°C to 95°C**
TIKI KCP22/KCP24	Tough and Durable Primary Vapour and Weather Barrier Coating	Prevention of ingress of Water and Water Vapour into Insulations including Mineral Fiber, PU and Cellular Glass Foam in Cold, Intermittent or Dual Temperature Service. Protection of Insulation laid on Underground Pipelines from Corrosive Salts and Moisture present in Soil.	**-50°C to 155°C**
TIKI PC300	Vapour Barrier Coating	Prevent ingress of water vapour into thermal insulation including Cellular Glass, PUF & PIR Foam on Piping & Equipment, protect insulation installed over underground pipelines from corrosive salts & ground moisture.	**-40°C to 95°C**

BUTYL ALUMINIUM LAMINATE VAPOUR BARRIER MEMBRANE

Effective and strong vapour barrier for cold and cryogenic insulation systems is crucial for efficacy and long life of thermal insulation. Vapour barrier mastics in 2 or 3 coats interposed with reinforcing wopeaven e mesh are provided over insulation before weatherproof jacketing.
With the increase in magnitudes of projects and reduced completion periods, membrane vapour barrier jacketing is a preferred solution, particularly for straight runs of piping and flat & cylindrical equipment surface. Membrane vapour barrier has many advantages over mastic vapour barrier.

- Self Adhesive, Self Sealing & Self Healing Butyl Aluminium Laminate with 0.00 perms water vapour permeance and can be efficiently applied with substantial savings in time and application cost.
- Aluminum protective laminate facing imparts mechanically strong and pinhole free finish.
- Factory finished single layer membrane ensures consistent quality of product & application.
- Membrane finish avoids spillage, resulting in saving of manpower required for cleaning.
- Uniform membrane easy to cut is formed to suit the contour of insulation thereby ensuring a neat and aesthetic finish.
- Excellent elongation property of membrane accommodates expansion and contraction cycles without compromising integrity of the insulation system.
- No wastage like mastics during application and residual materials in pots & pails.
- Longer shelf life and ease of logistics.

TIKI TWRAP, FOIL & TAPE

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI TWRAP	Self Sealing, Self Healing & Self Adhesive Vapour Barrier Butyl Membrane Jacketing	Protecting cellular glass, polyurethane, polyisocyanurate, phenolic and polystyrene foams and rigid mineral fiber thermal insulations over piping and equipment in LNG and Cold / Cryogenic systems.	**-196°C to 145°C**
TIKI VS FOIL	Multi-Layer Self Adhesive Vapour Barrier Tape	Protecting wrapping tape on insulated cold tubes, piping, pipe fitting boxes and equipment. Sealing joints of vapour barrier foil. Joining and sealing laminated fiberglass blanket, duct board joints and seams.	**-85°C to 150°C**
TIKI FOIL	Multi Layer Foil	Prevent the ingress of moisture and vapour into the insulation and as secondary vapour barrier in multi layer cryogenic cold insulation.	**-85°C to 150°C**
TIKI BF9604	Butyl Flashing Sealing Tape	Water tight sealing of laps in metal jacketing. Sealing butt joints of cellular glass and other rigid foam insulations. Sealing butyl rubber sheet vapour retarder over contraction joints in cryogenic insulation.	**-45°C TO 90°C**

CLAY TYPE EMULSIONS FOR INSULATION AND STEEL PROTECTION

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI KOTE T-1 & T-2	Water bound Clay type emulsion	Protect insulation and steel from moisture and corrosive gasses. Prevent dampness in insulation during off periods or cold cycles in hot and intermittent or dual temperature service.	**TIKI KOTE T-1 150°C** **TIKI KOTE T-2 260°C**

FIRE RESISTIVE ADHESIVES AND COATING

Mostinsulations, being non-structural materials, require permanent securement and sealing to the support by using Adhesives with low water vapour permeance. TIKITAR provides solutions for fixing rigid and flexible insulation to all piping and equipment surfaces using high end performance, fire resistive Adhesives.

TIKITAR Adhesives are suitable for fixing insulation in areas where the use of mechanical fasteners is functionally not feasible.

Continuous and fully bonded insulation with TIKI TAR high performing Adhesives provides a lifelong performance n combination with protective jacketing / cladding.

FIRE RESISTIVE ADHESIVES AND COATING

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI P8133	Quick Setting Fire Resistive Adhesive	Bonding Thermal Insulation to all Structural and Equipment Surfaces. Sealing Joints and Seams of Insulation including Polyurethane and Polyisocyanurate Foam Insulation.	**-60°C to 155°C**
TIKI STIC PLUS 8110	High Performance Contact Adhesive	Bonding NBR, XLPE and fibrous insulations to G.I. and aluminum duct surfaces and chilled water pipelines.	**-45°C to 95°C**
TIKI K3036	Insulation Duct Coating & Adhesive Washable Water based Indoor Lagging Adhesive & Coating	Adhesive for fixing Canvas and Glass Cloth over insulation. Lap Joint Adhesive for Bonding & Sealing Side Laps & Joints of Lagging Material. Protecting Insulation on HVAC ducts & Cold Water Piping.	**-45°C to 95°C**
TIKI K3036 (AF)	Anti-fungal Duct Coating and Lagging Adhesive	Anti-Fungal Indoor Coating for protecting thermal insulation and adhesive for fixing Canvas and Glass Cloth to Insulation. Lap Joint Adhesive for bonding side laps of lagging material and join & seal fibrous duct liner and plenum insulation to prevent fiber erosion and seal against air leakage.	**-45°C to 95°C**
TIKI K8127	Fibrous Adhesive - Non Flammable Quick Setting	Bond dense thermal insulations such as calcium silicate and expanded perlite to itself and to non porous surfaces. Bonding high temperature alkali resistant cloth on high temperature insulation.	**5°C to 660°C**

FIRE RESISTIVE ADHESIVES AND COATING

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI K8560	Quick Tack Adhesive	Bond fibrous insulation including low density duct liner and duct wrap to painted or unpainted steel, galvanized, aluminum and other surfaces such as concrete, blockworks & masonry.	**-30°C to 100°C**
TIKI F8575	Fast Setting Non-Flammable Water & Fire Resistive Lap Adhesive	Bonding impermeable surfaces. Sealing adhesive for bonding laps of secondary vapour barriers in cryogenic insulation systems.	**-196°C to 95°C**
TIKI F1075	Fast Setting Water Resistive Lap Adhesive	Bonding impermeable surfaces. Bonding Seams of vapour barrier jackets. Bonding materials to variety of surfaces requiring immediate and strong adhesion.	**-196°C to 100°C**
TIKI F8520	Fast Setting Non-Flammable Fire Resistive Adhesive	Adhering Mineral Wool & Duct Wrap Insulation (upto 100 kg/m3) to air conditioning & hot air ducts. Bonding laps & seams of aluminum foil, FSK, ASJ & FRK facings.	**-30°C to 85°C**
TIKI F8122	Duct Adhesive	Bond nitrile rubber, EPDM, XLPE & Mineral Wool to Duct Surfaces and Chilled Water Pipelines. Bonding acoustic lining to Ducts & Concrete Surfaces and Underdeck Insulation. Bonding PUR, PIR, Phenolic Foam & Flexible Urethanes & their finishes to self and to various substrates.	**-35°C to 70°C**

EMULSION FOR BONDING SOLVENT SENSITIVE INSULATION MATERIALS

TIKI KOTE T-3	Water borne, cold applied Emulsion	Bonding solvent sensitive insulations such as Expanded Polystyrene (EPS), Extruded Polystyrene (XPS) to each other and to variety of substrates in cold storages, refrigerated piping, AC ducts in HVAC and other industries. Adhesive for fixing insulation slabs like PU & Other Foams, PVC Tiles, Cork , & Linoleum tiles.	**-10°C to 90°C**

VAPOUR STOPS AND BORE COATINGS FOR CRYOGENIC APPLICATIONS

Most cold insulation specifications are based on Elastomeric Adhesives, Sealants & Vapour Barrier Products with Service Temperature Range limitation of -80ºC to 175ºC. These products are suitable for applications where the product does not come in direct contact with cryogenic temperatures lower than the service temperature.

Tiki Tar offers specialty products with a Service Temperature range -196ºC to 155ºC at coated surface which are suitable for use as Vapour Stops & Abrasion Resistant Bore Coating.

TIKI TAR CRYOGENIC ADHESIVE, BORE COATING & HEAT TRANSFER CEMENT

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI F8184	Non-Halogenated Adhesive & Sealant	Bonding various types of low temperature insulation to themselves as well as to metal, stainless steel and masonry surfaces. Attaching PUR, PIR, Cellular Glass, Polystyrene & Phenolic Foams on Pipelines & Equipment in Cold & Cryogenic processes. Joint sealant for insulation in low temperature applications.	**-196°C to 100°C**
TIKI F8277	Cryogenic Adhesive - 3 component 100% solid chemically cured Adhesive free from solvents	Bonding low temperature and cryogenic insulation such as Cellular Glass, PIR & PU to themselves as well as to metal, stainless steel and masonry. Bonding steel pipe shoes or saddles to pipe insulation assemblies.	**-196°C to 125°C**
TIKI F8182	Solvent Free Flexible 2 Component Adhesive	Adhesive for bonding various insulation materials to themselves, steel and masonry surfaces.	**-80°C to 155°C**
TIKI VS9066	Elastomeric Cryogenic Coating	Vapour stop sealant for cryogenic insulation. Vapour barrier coating over themal insulations in low temperature processes.	**-196°C to 125°C** **Upto 135 °C intermittent**
TIKI K3016	Fire Resistive Abrasion Resistant Bore Coating	Provide abrasion resistant bore coating to insulation substrates across wide range of service temperature on Cold & Cryogenic as well as dual temperature piping and equipment.	**-196°C to 125°C**
TIKI K3060	Heat Transfer Cement	Creating efficient thermal bond between steam or electric traced system and process pipes or equipment preventing locallised overheat and temperature drops.	**-196°C to 325°C & 410°C** **Intermittent**
TIKI AP88	Adhesive For Cellular Glass Insulation	Bonding cellular glass insulation with porous or non-porous substrates.	**-190°C to 85°C**

TIKI TAR EPOXY PHENOLIC COATING AND EPOXY NOVOLAC PIPELINE COATING

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI PC95	Pipeline Coating - Fast curing solvent free ceramic modified epoxy novolac protective coating.	Corrosion preventive coating for pipelines, field pipeline joints, fittings, valves, tanks and vessels, piles and other steel structures.	**Upto 100°C**
TIKI EPC	High Build Epoxy Phenolic Coating	Application internally on shell plate before application of refractory, ceramic fiber blanket / module /board lining, such as for inner shell of boilers, furnaces, heaters & reformers. Tank interior coating for mild steel and concrete in refineries, petrochemicals & heavy chemical industries.	**UPTO 180°C**

FIRE RESISTIVE JOINT & FLASHING SEALANT

Proper sealing of all insulation joints and protective cladding & jacket laps is crucial to prevent ingress of water, vapour & corrosive gases. Any opening in the joints allows formation of condensate on jacketing, insulation and equipment & lines and contributes to wetting of the insulation consequently leading to higher heat transfer & corrosion of steel. TIKI TAR Sealants are high solid high build polymer modifed systems used to seal the longitudinal & circumferential joints of insulation against moisture penetration. TIKI TAR Sealants remain flexible and allow for expansion and contraction movement in the insulation system without developing any cracks, within operating temperature range.

Moisture damages the insulation causing C.U.I. Even after sealing insulation joints, high probability exists for moisture ingress through various penetrations and protrusions including flanges, valves, gauges, supports, legs, cradles etc. or wherever insulation is cut to accommodate such fittings. In order to create proper & effective sealing, the insulation terminations must be flashed to shed water.

The metal jacket or cladding used for protecting insulation and insulation finishes from aggressive weather and mechanical abuse, has longitudinal and circumferential joints, which if not sealed, would allow moisture migration into the insulation. TIKI TAR industries manufactures high performing metal joint sealants for sealing laps of metal cover.

TIKI TAR SEALANTS FOR INSULATION SHEET METAL & FLASHINGS

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI F3045/3045N	Flexible Tough MultiPurpose Vapour Barrier Sealant	Sealing Joints of Rigid Thermal Insulation Including Cellular Glass, PIR, PU and other Insulations. Flashing Structural Parts that penetrate Insulation. Bedding Compound and Joint Sealant to provide additional protection to the blocks of insulation thereby protecting equipment from corrosive environment.	**-75°C to 155°C**

TIKI TAR SEALANTS FOR INSULATION SHEET METAL & FLASHINGS

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI F9555	Fire Resistive Aluminum Metal Sealant	Seal laps of Metal Jackets or Cladding located near fire critical areas to prevent ingress of moisture through laps. Weatherproof Flashing at Protrusions such as ventilation pipes, ducting supports etc. through insulated areas.	**-165°C to 95°C**
TIKI P9550/9550+	Multipurpose Elastomeric Vapor Barrier Sealant.	Sealing Joints of Rigid Thermal Insulation Including Cellular Glass, PIR, PU and other Insulations to prevent entrance of Moisture & Vapour . Bedding Compound for the installation of cellular glass insulation protecting both the insulation and metal surfaces from abrasion and corrosion.	**-196°C to 95°C**
TIKI K3219	Water Based Fire & UV Resistant Duct Sealant	Sealing low, medium and high velocity HVAC Ducts against air leakage. Sealing joints, laps, weld pin punctures of FSK, FRK & ASJ board facings. Sealing of flexible air ducts to rigid connections.	**-10°Cto 95°C**
TIKI F9544	Flexible Fast drying Vapor Barrier Sealant	Sealing Joints in Low Velocity Duct Air-Conditioning Systems.Sealing Laps of Aluminum Jacketing over Insulation to prevent ingress of moisture through Joints and Laps. As a flashing compound to flash projection and terminations to prevent entrance of moisture thereby providing complete protection.	**-105°C to 145°C**
TIKI K3217	Fire Resistive Water Based Sealant	Vapour Barrier Sealant for Low, Medium and High Velocity Heating & Air conditioning ducts.	**-10°C to 95°C**
TIKI B9588	Butyl Rubber based Sealant	Seal laps of metal jacketing to provide water tight and airtight vapourseal. As flashing compound to flash projections and terminations to prevent ingress of moisture and vapour.	**-45°C to 125°C**
TIKI FCP70	Flexible Joint Sealant Flashing Compound and Vapour Seal	Sealing joints of thermal insulations and metal jacketing against moisture ingress. Flashing terminations and penetrations.	**-75°C to 155°C**

With a wide range of products, Tiki Tar encourages Designers, Specifiers & Contractors to consult our technical team for product selection and any other information specific to the project locations and regulations

BENEFICIAL FEATURES OF TIKITAR INSULATION PROTECTION PRODUCTS

Indigenous – Economical

TIKITAR local expertise, market presence and unmatched capability of supplying any quantum of material in the industry at very competitive cost has made our customers realise economics and savings in terms of time and cost, which has made us reliable partner in insulation industry.

Special Fire Resistive Grade

The products are specially manufactured to meet high end requirements of projects on fire resistance contributing to the fire safety of installation, delivering superior protection to people and assets.

Outstanding Protection to Thermal Insulation

Offers the industry's best protection to thermal insulation against Water Vapor and Moisture and consequently Steel Corrosion owing to its high impermeability, very low water vapor permeance, resistance to various chemicals and corrosive atmosphere.

Quick and Easy to Apply

All products meant for application in conjunction with thermal insulation are supplied as ready to use enabling faster turnaround approach to protecting thermal insulation.

Excellent Conformability to Insulation Sections

Complex insulating geometries become seamless and simple. The enhanced flexibility due to polymeric composition aids TIKITAR insulation protection products to conform with varying contours of insulation sections without cracking.

Chloride Free

High quality control at each and every stage of manufacturing process, ensures all mastics, coatings, sealants and adhesives, whether water based or solvent based are free of water leachable chlorides, which makes it highly suitable for specialised applications, wherein the products do not attack steel nor causes external stress cracking of steel.

Excellent Adhesion to Insulation & Metal Surface

The inter penetrating network of polymer matrix with visco elastic binder in the composition imparts excellent bonding properties enabling mastics and coatings to adhere to insulation and metal surface permanently.

Meets Service Temperature Requirement

The polymeric composition with its better flexural quality at low temperature allows insulation protection mastics and coatings to resist wide range of temperature in service. It stays tough and flexible under service conditions without any damage.

Consistent Quality

The use of advanced manufacturing process and technology utilising state of art manufacturing plant coupled with stringent quality control at each and every step of process promises consistency in quality of all mastics, adhesives, sealants and coatings meant for insulation protection.

Stands Upto Stress

TIKITAR insulation protection products have succesful performance indoor and outdoor, based on the grade selected. The initmate bond development with the insulation and /or metal surfaces coupled with toughness and flexibility of polymeric network result in excellent resistance to various stresses and its absorption without rupturing.

Does not Soak, Swell or Buckle in Moisture

The advanced formulation synergising the combination of various functional inputs convert TIKITAR Product high resistance to various chemicals, water, moisture and corrosive chemicals, which after complete curing and hardening does not soak, swell or buckle in moisture, maintaining its integrity.

Stays Intact

The visco-elastic nature of polymeric binder and a unique reinforcement of high performance functional fillers makes dried film tough yet flexible and stay intact, resulting in tight barrier resistant against penetration of corrosion causing moisture, oxygen, water and salts.

QUALITY

TIKITAR endeavours to provide Customers with advanced products and technologies as a provider of most innovative and quality products. The quality of products are monitored at every stage right from raw material to the finished product, assuring consistencies in all supplies.

Our quality testing laboratory is accredited with ISO/IEC 17025:2017 Certification for carrying various Chemical and Mechanical Testing by National Accreditation Board for Testing and Calibration Laboratories(NABL).

TIKITAR gets their products tested by independent third-party laboratory periodically to ensure the quality of products manufactured

CLIENTELE

L&T
Punj Lloyd GROUP
Lloyd Insulations
PETRON ENGINEERING
बी एण्ड आर B AND R
G+H LIZ INDIA
cape Excellence delivered
Lear Insulation Engineering Pvt. Ltd.
NEWKEM
OIL Delivering Endlessly
R. K. Insulation Engineers & Contractors
Thermins India
National Refractory Corporation
GI INSULATIONS PVT. LTD.
INSULREF EVERYTHING ABOUT INSULATION & REFRACTORIES
isolant
PNP ENGINEERING WORKS (P) LTD.
KAEFER
Shree Engineers
LORVEN INTERNATIONAL
Tuaman A Complete EPC Solution
OIL Delivering Endlessly Offshore Infrastructure Limited
MITSUBISHI HEAVY INDUSTRIES
VTV VIJAY TANKS & VESSELS (P) LTD. SINCE 1956
INSULTEC
SOPAN
LORVEN ENERGIES INDIA PVT. LTD.
HEAT SHIELD One Stop Insulation Solutions ISO9001 UAE COMPANY

CONSULTANTS & PROJECTS SERVICED BY TIKI TAR

EIL

TOYO ENGINEERING

पी डी आई एल PDIL

eni saipem

Tecnimont

FW

Reliance Industries Limited

Bharat Petroleum

इंडियनऑयल IndianOil

ओएनजीसी ONGC

OPaL

HP

गेल GAIL

HALDIA PETROCHEMICALS LTD

Linde

T.EN TECHNIP ENERGIES

PETRONET LNG LIMITED

IOT EP IOT Engineering Projects Limited

POWERICA A PROMISE FOR POWER

HEURTEY PETROCHEM

ADITYA BIRLA GROUP

HRRL

RCF RASHTRIYA CHEMICALS AND FERTILIZERS LTD

AIR CONTROL & ENGINEERING CO. (Air Conditioning and Refrigeration Project Engineers)

IHI

HMEL

TECNICAS REUNIDAS

Birla Cellulose Fibres from nature

NAGARJUNA GROUP

CINDA Engineering & Construction Pvt. Ltd.

Camphor & Allied Products Ltd.

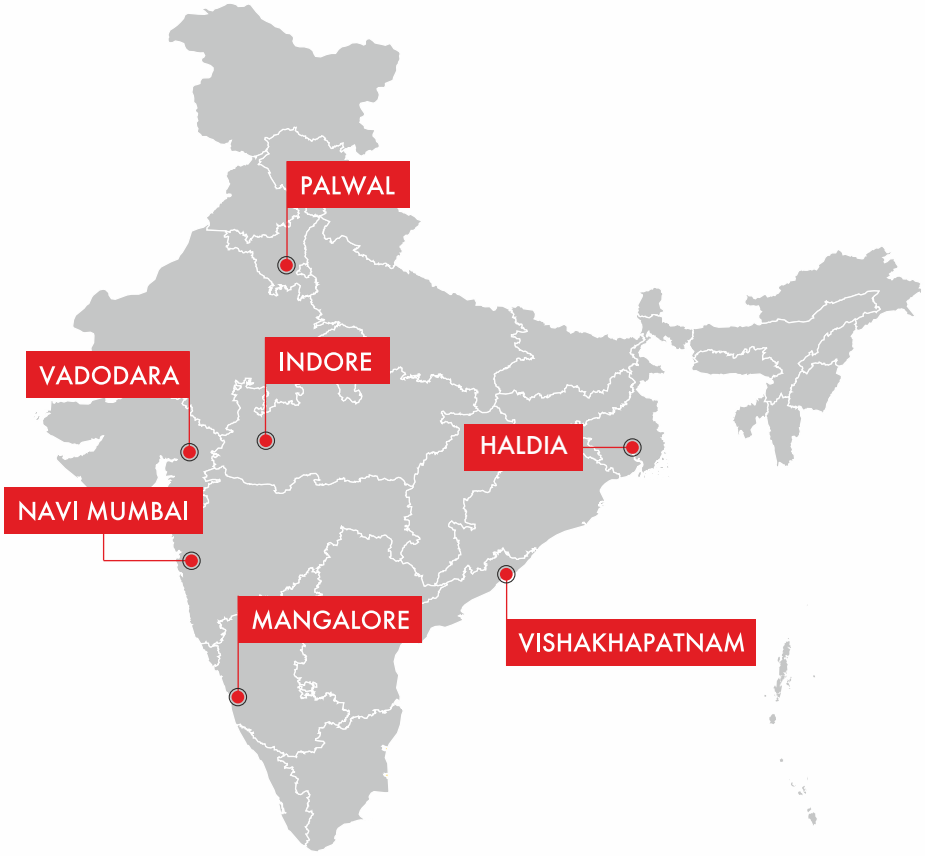
Mylan Seeing is believing

Dr.Reddy's

KSFL कृभको श्याम फर्टिलाइजर्स लिमिटेड KRIBHCO SHYAM FERTILIZERS LIMITED

tenova

FARABI PETROCHEMICALS



Scale and scope of our operation enhance our ability to compete efficiently. Our business units support one another by generating product synergies and sharing know-how. All benefit from enhanced purchasing power which comes from being a part of an expanded group. All share the fruits of our continuous investments in our research and product development. Allied to our product breadth, our national presence gives us unrivalled capacity to deliver what our customers require.

Mumbai Office

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Vadodara Office

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Delhi Office

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TIKI TECH

LEED compliant

Zero or Low VOC

Antifungal

Antibacterial

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