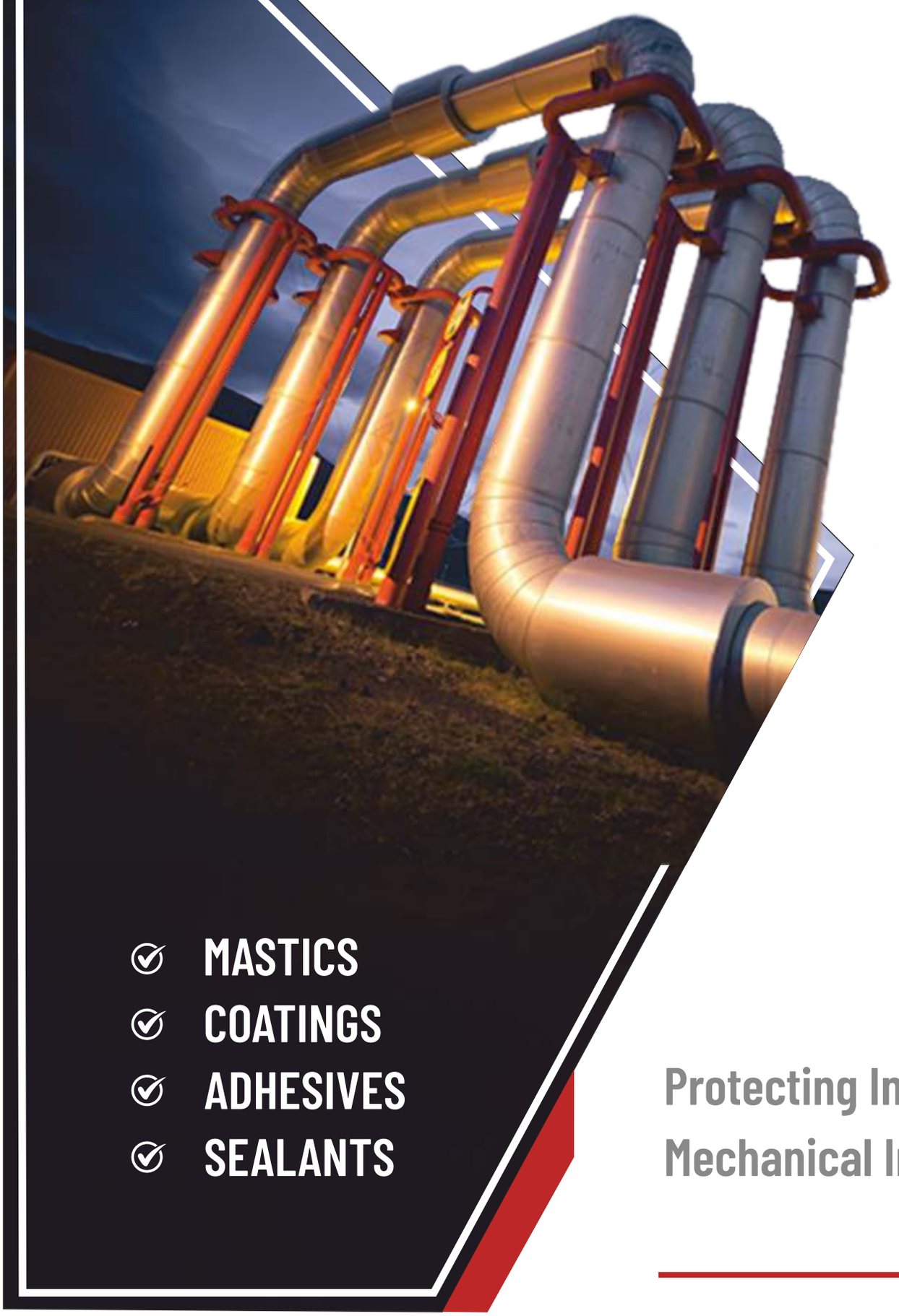
tiki INSULATION



- 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, DampSeal, Interleafing Felt, 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 Bitumen & Bituminous products, Elastomeric Mastics, Sealants, Adhesives, Paints, Vapour Barrier Jacketing, Tapes, Foils, Heat Transfer Cement & Epoxy Phenolic Coatings etc.

Tiki Tar is accredited as ISO 9001:2015, NABL ISO/IEC 17025:2005 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 the past more than 60 years, Tiki Tar has evolved through a genuine passion for R&D & Innovation.

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

FROM THE HISTORY INTO THE FUTURE

A JOURNEY THAT IS EVOLVING AND CREATING NEW MILESTONES

1964

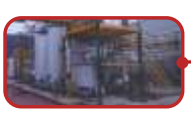
Established Tiki Tar (Mumbai Plant)

1979

Commenced Halol Plant

1984

Became the first company to Introduce Bitumen Emulsion in India



1992

Expanded manufacturing operation in Pithampur, Indore

1997

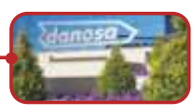
Started Operations in Taloja

2000

Commenced Operations in Mangalore

2019

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



2012

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

2011

Started Manufacturing Specialty Chemicals for Oil and Gas

2010

Supplied to Buddha International Circuit- the first racetrack project

2007

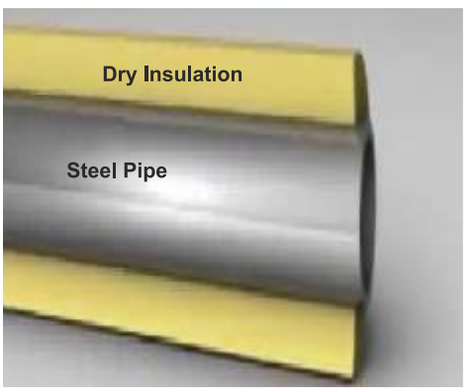
Secured Contract from Bharat Petroleum for their CRMB and Emulsion Plant

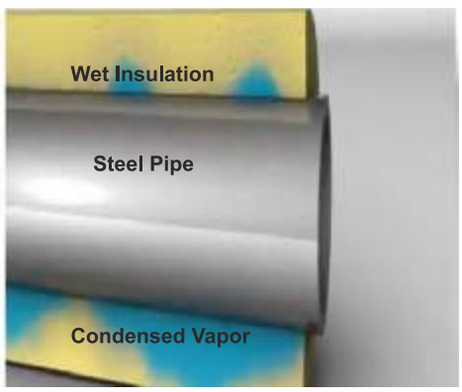
2002

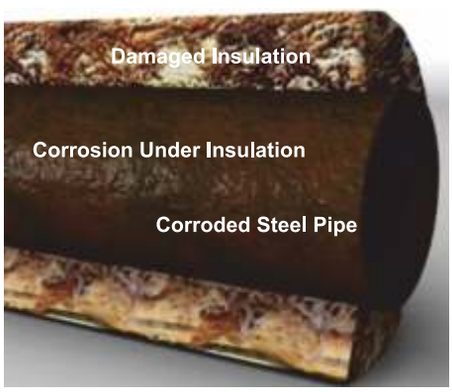
- Commenced operations in Vizag
- Secured Contract with Indian Oil for building and operating their plant

CORROSION UNDER INSULATION (CUI)

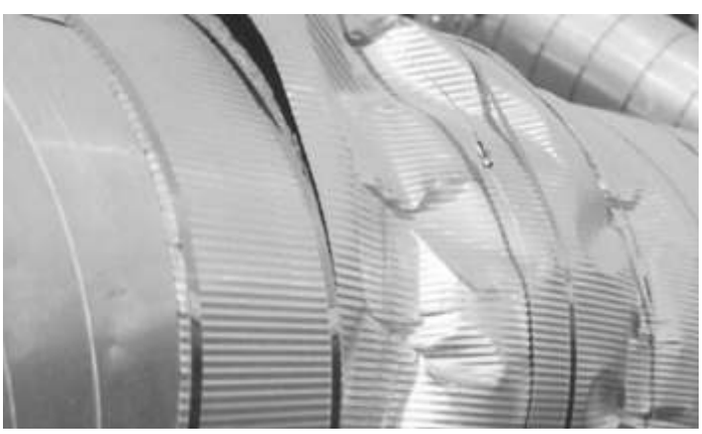
With the increase in industrialization and demand for energy, thermal insulation has assumed great importance for energy conservation, process stability, health safety and environment protection. Investment in providing quality thermal insulation systems is high. Protecting thermal insulation from water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

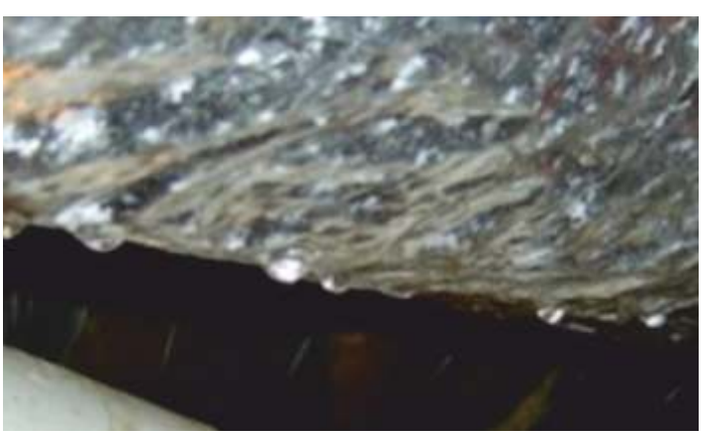






CUI is one of the most critical issues. Ingress of Water or Vapour into insulation occurs through improperly sealed cladding, inadequate vapour barrier and mechanical damage to insulation. Water & Moisture carry chlorides & other radicals that attack steel & cause corrosion. Corrosion of steel manifests 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 eiciency, process stability, reduced productivity & plant life. Moreover, wet insulation causes microbial contamination & indoor air quality issues.





Effective sealing of Vapour & Moisture ingress with eicient 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 diicult 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 eiciency & 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 and 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)**
- **Bitumen Emulsion (Clay Type Emulsion For Steel Protection)**
- **Bituminous 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 coating ensuring optimal maintenance of insulation & operational eiciency through the life cycle of insulation.

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

All products are supplied ready to use single or multi components, which do not undergo any exothermic or endothermic reaction nor absorb water or moisture. Once applied, the product undergoes slow air drying and curing and ultimately hardens without noticeable shrinkage. The hardened 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 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 eicacy 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.

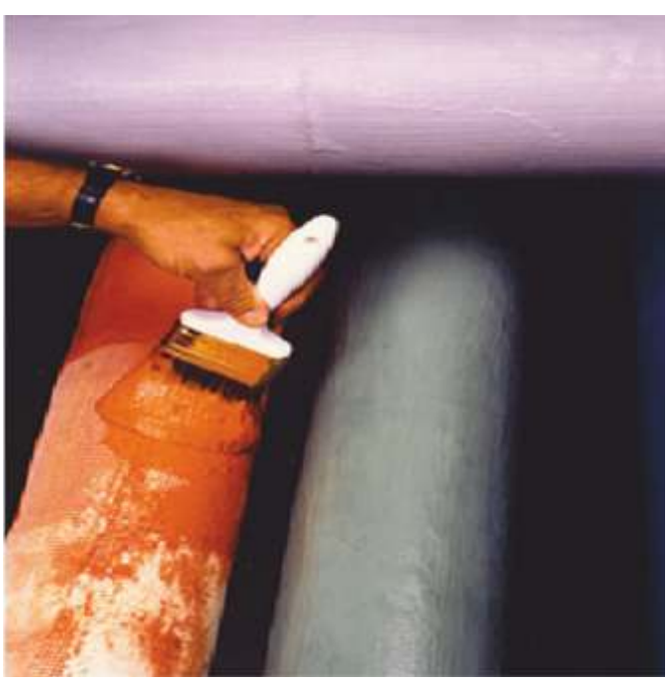
Weather barrier mastic is water based polymer in trowelable consistency designed to provide protection to insulation. It allows the trapped water vapour to pass through it, while repelling water in liquid state.

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. If the water vapour does not vent, it will condense on jacketing, causing pitting.

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 confirmed by ASHRAE (American Society of Heating, Refrigeration & Air-conditioning Engineers), the environmental protection agency & the department of energy.

TIKI TAR WEATHER BARRIER MASTICS & COATINGS

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI KCP9	Tough And Durable Weather Resistant Mastic	Weather Proofing and Heavy Duty Protection of Thermal Insulation in HOT, COLD and DUAL TEMPERATURE SERVICE.	**-40°C to 85°C**
TIKI K3500/3501	High build Polymer Based Protective Mastic	Used as Heavy Duty Protective Mastic on Thermal Insulation and Cementitious Finish in Hot and Dual Temperature Service. It is suitable for both Indoor and Outdoor environments.	**-30°C to 90°C**
TIKI K6080	Durable and Breathable Fire Resistive Weather Barrier Protective H.I. Mastic	Protecting Thermal Insulation installed Outdoor on Equipment & Piping such as Calcium Silicate, Mineral Fiber, Cellular Glass, Polyurethane from water ingress, thus reducing heat loss & increasing insulation eiciency.	**-30°C to 95°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	**-30°C to 95°C**
TIKI K4650/4651	Polymer based Fibrated Fire & Weather Resistant Breathable Mastic	Used as Waterproofing & Protective Coat over rigid board thermal insulations including polystyrene, polyurethane, polyisocyanurate in hot & dual temperature service installed indoor & outdoor	**-30°C to 85°C**
TIKI HTM500	Tough Durable Mastic based on modified Asphalts	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 Used to seal air infiltration through bolted casing joints.	**<10°C to 80°C** **Intermittent temperature up to 100°C**
TIKI P6045	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 175°C**
TIKI F6030/6035 **TIKI F6060/6065**	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.	**-30°C to 85°C** **-40°C to 100°C**
TIKI K404	Acrylic Polymer based Weather Resistant Coating for protection of Cellular Glass Insulation	It is used as heavy duty protective coat on cellular glass insulation for outdoor and indoor, hot cold & dual temperature service	**-35°C to 85°C Up to 105°C Intermittent**

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.

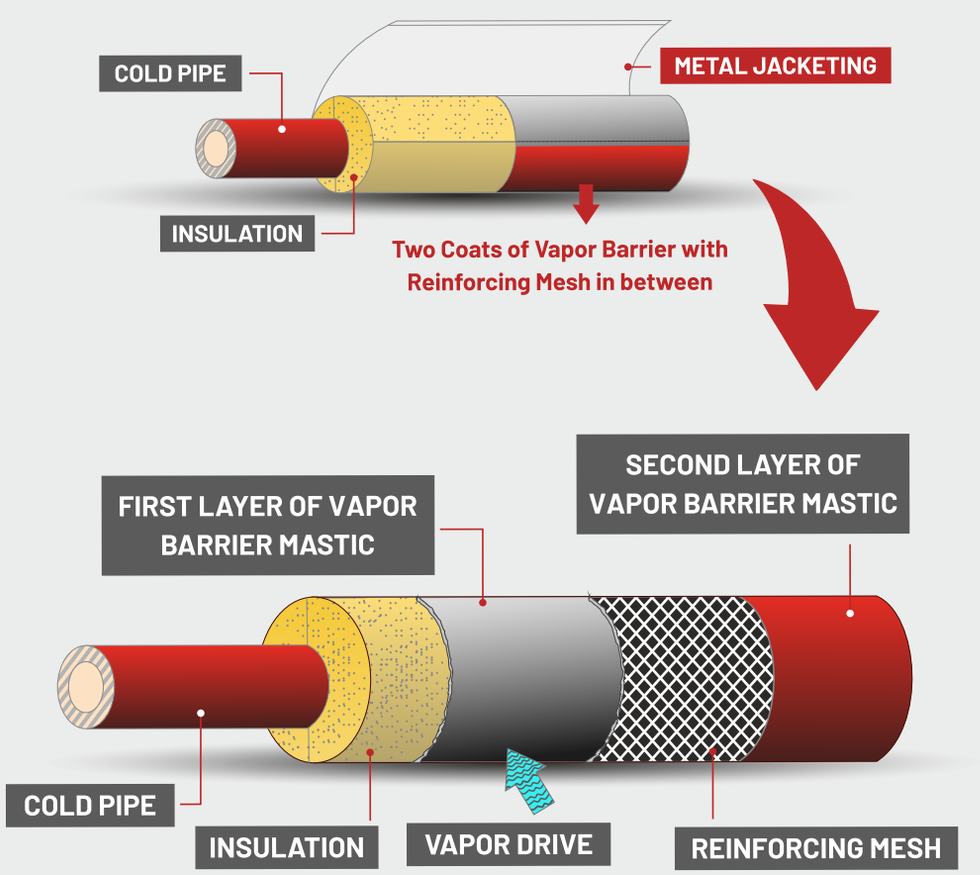
The range of Vapour Barriers are specially formulated and manufactured at TIKI TAR state of art manufacturing facilities. to meet project specific service temperature, flre resistance and vapour permeability requirements. The higher the anticipated vapour pressure difference across insulation system,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

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

TIKI TAR Vapour Barriers are high solids solvent based formulated systems, supplied 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 weave mesh reinforcement embedded in the first layer of 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 fiber glass or synthetic fiber mesh or woven canvas or fiber glass cloth, preventing cracking over seams or area of movement, and improving the overall strength of the application. The smooth thixotropic consistency eases application and ensures uniform coverage free of pin holes 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 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	Its unique Vapour Barrier property protects the cold insulation against ingress of vapour and moisture. Used as Vapour Barrier Mastic finish for protecting outdoor thermal Insulation from extremes of weather conditions. For severe & cryogenic service application of additional coat over the dried second coat is recommended.	**-40°C to 120°C**
TIKI K3080	Water based Fire Resistive Vapour Barrier based on Modified Polymer	Used for 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 80°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 Used for 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 85°C**
TIKI F6075	Fire Resistive Primary Vapour Barrier Aluminum Mastic	To 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 80°C**
TIKI F6090/6091	Tough and Flexible Primary Vapour Barrier Fire Resistive Mastic with outstanding resistance to Chemicals and Aggressive Weather for Cold Insulation	Protecting Outdoor Thermal Insulation from extremes of Weather Conditions. As a Vapour Barrier for Protecting Low Temperature Thermal Insulation on Tanks, Vessels, Equipment, Pipeline, Ductwork, Fittings etc., from Ingress of Corrosive Vapours.	**-50°C to 105°C**
TIKI F6095/6096	Vapour Barrier Elastomeric Brushable Coating	Protecting Outdoor Thermal Insulation from extremes of weather conditions specially spray Polyurethane and flexible EPDM cellular tubing and sheets. It is used for protecting low temperature thermal insulation	**-45°C to 105°C**
TIKI P6025/6026	Tough and Durable Primary Vapour Barrier C.I. Mastic Based On Modified Asphalts	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 Also used as an Adhesive for fixing Asphaltic Felt Vapour Barrier Jacket on Pipe & Duct Insulation	**-35°C to 80°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. Also used as Vapour Barrier Mastic for low temperature insulation where insulation used is not affected by mild solvents.	**-40°C to 95°C**
TIKI PCP22	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 160°C**
TIKI CP300	Asphalt based Vapour Barrier Coating	It is used to prevent ingress of water vapour into thermal insulation including Cellular Glass, PUF & PIR Foam on Piping & Equipment, also suitable to 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 eicacy and long life of thermal insulation. Vapour barrier mastics in 2 or 3 coats interposed with reinforcing open weave 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 (tested as per ASTM E96 method E) can be eiciently 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.

Designed For Efficiency and Economy

TIKI TWRAP, FOIL & TAPE

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI TWRAP	Self Sealing, Self Healing & Self Adhesive Butyl Membrane Vapour Barrier with top protective laminate facing of 25µ aluminum foil sandwiched between two 12µ polyester films and asphalt free elastomeric butyl adhesive with release film at bottom	Excellent protective moisture & vapour barrier over cold and cryogenic piping &equipment insulation applications in LNG & other cold/cryogenic insulation systems with various thermal insulations including cellular glass, polyurethane, polyisocyanurate, phenolic & polystyrene foams & rigid mineral fiber insulation materials	**-196°C TO 140°C**
TIKI VS FOIL	Multi-Layer Self Adhesive Vapour Barrier Tape with Solvent based acrylic adhesive, consisting of 25µ aluminum foil sandwiched between two 12µ polyester films and a release film	It is used as vapour sealing foil tape to seal the joints of vapour barrier foil It is also used as protective wrapping tape on insulated cold tubes, piping, pipe fitting boxes & equipment In HVAC industry, tape is used for joining & sealing laminated fiberglass blanket/duct board joints & seams	**-80°C TO 150°C**
TIKI FOIL	Multi Layer Foil with excellent vapour barrier properties consisting of 25µ aluminum foil sandwiched between two 12µ polyester films	It is used in cold/cryogenic insulation systems to prevent the ingress of moisture and vapour into the insulation and as secondary vapour barrier in multi layer cryogenic cold insulation	**-80°C TO 150°C**
TIKI BF9604	Butyl Flashing Sealing Tape - Non Hardening Solvent Free, double sided tack tape covered with release film	It is used for 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**
TIKI FOL 73	HDPE Foil with Studded Profile is a strong and flexible nodular sheet designed to prevent CUI	It is used to protect vapour barrier from puncture damage and to aid evaporation/drainage of condensed moisture vapour under the metal jacket during cyclic hot processes, minimizing moisture damage to the insulation, pipes and equipment	**-30°C TO 80°C**

TIKI BITUMINOUS 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 processed from bitumen and inert fillers	Used to protect insulation and steel from moisture and corrosive gasses Used on pipelines and equipment in hot & intermittent or dual temperature service to prevent dampness in insulation during off periods or cold cycles	**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, both water and solvent based.

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 Can be used without mechanical fastening for marine Hull Insulation	**-60°C to 150°C**
TIKI PR8110	Quick Setting Fire Resistive Synthetic Elastomeric Adhesive	Its fast setting nature makes it suitable for bonding to variety of substrates including steel, aluminum and most thermal insulation materials	**-25°C to 90°C**
TIKI STIC PLUS 8110	High Performance Contact Adhesive	Used for bonding various insulation in HVAC Ideal to bond galvanized iron and aluminum duct surfaces with NBR, SLPE & Fibrous Insulation to GI Ducts and chilled water pipes	**-25°C to 120°C**
TIKI K3036	Insulation Duct Coating & Adhesive Washable Water based Indoor Lagging Adhesive & Coating	Adhesive for fixing Canvas and Glass Cloth over insulation. As a Lap Joint Adhesive for Bonding & Sealing Side Laps & Joints of Lagging Material. Protecting Insulation on HVAC ducts & Cold Water Piping	
TIKI K3036 (AF)	Anti-fungal Duct Coating and Lagging Adhesive	Tough Washable Anti-Fungal Indoor Coating for protecting thermal insulation and as adhesive for fixing Canvas and Glass Cloth to Insulation Also used as 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	
TIKI K8127	Fibrous Adhesive - Non Flammable Quick Setting Incombustible adhesive based on silicic acid salt and alkali	It is used to bond dense thermal insulations such as calcium silicate and expanded perlite to itself and to non porous surfaces It is also used as lagging adhesive for bonding high temperature alkali resistant cloth on high temperature insulation	**-5°C to 450°C**

FIRE RESISTIVE ADHESIVES AND COATING

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI K8560	Quick Tack Adhesive - Non Flammable Solvent Free Water Based Fire Resistive Adhesive based on synthetic elastomer emulsion	It is used to 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 85°C**
TIKI HK8560	Quick Tack Adhesive - Non Flammable Solvent Free Water Based Fire Resistive Adhesive based on synthetic elastomer emulsion	TIKI HK8560 contains almost zero V.O.C hence ideal for building projects as per green building norms It is used to bond Nitrile Rubber, Glass Wool & RockWool insulation to air conditioning ducts & chilled water piping and for underdeck applications	**30°C to 100°C**
TIKI F8575	Fast Setting Non-Flammable Water & Fire Resistive Lap Adhesive	It is used for bonding impermeable surfaces and as sealing adhesive for bonding the laps and seams of polyester secondary vapour barriers It is used for bonding materials to variety of surfaces requiring immediate bond development and adhesive strength	**-30°C to 95°C**
TIKI F1075	Fast Setting Water Resistive Lap Adhesive	Superior Adhesive For Bonding Impermeable Surfaces Good Sealing Adhesive For Bonding Laps and Seams of Vapour Barrier Jackets Preferred Adhesive For Bonding Materials To Variety Of Surfaces requiring immediate and strong adhesion	**-50°C to 100°C**
TIKI F8520	Fast Setting Non-Flammable Fire Resistive Adhesive, confirms to ASTM C918	Superior Adhesive For Adhering Mineral Wool & Duct Wrap Insulation (upto 100 kg/m3) to air conditioning & hot air ducts Used as sealing adhesive for bonding laps & seams of aluminum foil, FSK, ASJ & FRK facings Also used to adhere insulations to wood & concrete surfaces	**-30°C to 85°C**
TIKI F8122	Duct Adhesive	To bond nitrile rubber, EPDM, XLPE & Mineral Wool to Duct Surfaces and Chilled Water Pipelines Used for bonding acoustic lining to Ducts & Concrete Surfaces and Underdeck Insulation For Bonding PUR, PIR, Phenolic Foam & Flexible Urethanes & their finishes to self and to various substrates	**-30°C to 70°C**

TIKI BITUMINOUS EMULSION FOR BONDING SOLVENT SENSITIVE INSULATION MATERIALS

TIKI KOTE T-3	Water borne, cold applied Bituminous Emulsion in brushable consistency	Used for 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 Suitable for use as bonding 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 (tested to TSTM 10) 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	It is a 2 component Adhesive based on thermosetting urethane free from halide containing materials and flammable solvents for bonding various types of low temperature insulation to themselves as well as to metal, stainless steel and masonry surfaces Used for attaching PUR, PIR, Cellular Glass, Polystyrene & Phenolic Foams on Pipelines & Equipment in Cold and Cryogenic processes It is suitable for use as joint sealant for insulation in low temperature applications	**-196°C to 95°C**
TIKI F8277	Cryogenic Adhesive - 3 component 100% solid chemically cured Adhesive free from solvents	It is used for bonding low temperature and cryogenic insulation such as Cellular Glass, PIR & PU to themselves as well as to metal, stainless steel and masonry For bonding steel pipe shoes or saddles to pipe insulation assemblies Also used as fabricating adhesive	**-196°C to 121°C**
TIKI F8182	Solvent Free Flexible 2 Component Adhesive having vapour barrier property	Used as adhesive for bonding various insulation materials to themselves, steel and masonry surfaces In cured state it exhibits good resistance to water, oils, hydrocarbon, solvents and dilute acids	**-80°C to 155°C**
TIKI VS9066	Elastomeric Cryogenic Coating	It is a 2 component elastomeric coating and adhesive for use as a vapour stop sealant for cryogenic insulation It is suitable for application to PU Foam, PIR Foam, Cellular Glass & Aerogel insulations in conjunction with piping and equipment	**-196°C to 85°C** **Upto 121°C Intermittent**

TIKI TAR CRYOGENIC ADHESIVE, BORE COATING & HEAT TRANSFER CEMENT

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI K3016	Fire Resistive Abrasion Resistant Bore Coating	It is used to 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	**-190°C to 100°C**
TIKI K3060	Heat Transfer Cement	It is a water based inorganic heat transfer paste designed to improve eicacy of heating systems and maintain temperatures of pipeline transporting fluids	**-80°C to 400°C**
TIKI AP88	Adhesive For Cellular Glass Insulation	It is a 2 component adhesive used for bonding cellular glass insulation with porous or non-porous substrates The adhesive has excellent wetting property and cures to form a flexible bond that can absorb mechanical and thermal shock	**-185°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.	It designed for pipelines and field joints of pipelines It is used as corrosion preventive coating and for extra protection on top of FBE main line coatings as well as a direct to metal coating when an increase temperature and chemical resistance is required	**UPTO 95°C**
TIKI EPC	To Component High Build Epoxy Phenolic Coating	It is specially formulated for 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 It is used as 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 gasses. 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 modified 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 weather barrier 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 **TIKI F3045N**	Flexible Tough MultiPurpose Vapour Barrier Sealant	Sealing Joints of Rigid Thermal Insulation Including Cellular Glass, PIR, PU and other Insulations. Prevents entrance of moisture through the Joints of Insulation. 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 150°C**
TIKI F9555	Fire Resistive Aluminum Metal Sealant	It is used to seal laps of Metal Jackets or Cladding located near fire critical areas to prevent ingress of moisture through laps It is also used as Weatherproof Flashing at Protrusions such as ventilation pipes, ducting supports etc. through insulated areas	**-30°C to 90°C**
TIKI P9550+	Multipurpose Elastomeric Vapor Barrier Sealant.	Single Pack Ready to use Vapour Barrier Sealant based on modified elastomers for Sealing Joints of Rigid Thermal Insulation Including Cellular Glass, PIR, PU and other Insulations to prevent entrance of Moisture & Vapour through the Joints of InsulationIt is also used as a Bedding Compound for the installation of cellular glass insulation protecting both the insulation and metal surfaces from abrasion and corrosionPrimarily used with low temperature insulation to prevent migration of water and water vapour into the insulation system through joints	**-80°C to 155°C** **-170°C to 90°C**
TIKI P9550	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 TAR SEALANTS FOR INSULATION SHEET METAL & FLASHINGS

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
TIKI F9544	Flexible Fast drying Aluminum Colored 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. It is specially designed for sealing Joints in Insulation (except polystyrene foam) Metal and Masonry providing Water Tight and Air Tight Seal.	**-100°Cto 125°C**
TIKI K3217	Fire Resistive Water Based Sealant for H.V.A.C Ducts	Vapour Barrier Sealant for Low, Medium and High Velocity Heating & Air conditioning ducts. The sealant has excellent resistance to weather, water vapour & water and is suitable for use under high humid environment	**-10°C to 90°C**
TIKI SMARTSEAL	Weather Silicone Sealant	It is neutral cure non-corrosive weatherproofing silicone sealant ideal for sealing laps of metal jackets, expansion joints, control joints, precast concrete panel joints, stress cracks & joints in parapet wall	**-55°C to 235°C** **Upto 265°C Intermittent**
TIKI B9588	Butyl Rubber Based Sealant	It is Flashing & Caulking compound with excellent weathering properties It is used to seal laps of metal jacketing to provide water tight and airtight vapour seal It is used as flashing compound to flash projections and terminations to prevent ingress of moisture and vapour	**-40°C to 125°C**
TIKI FCP70	Flexible Joint Sealant Flashing Compound and Vapour Seal	It is used as vapour barrier, water resistant sealant and expansion joint material with cellular glass & other insulation materials and metal jacketing preventing ingress of moisture through joints It is also used as flashing compound where structural parts penetrate an insulation system It is designed for use with rigid thermal insulation including polystyrene	**-70°C to 150°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 in single component pack. Without the need for dosing or mixing in proprtions, application and mixing errors are reduced to zero 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 permanentl

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 17025:2005 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
GJ INSULATIONS PVT. LTD.
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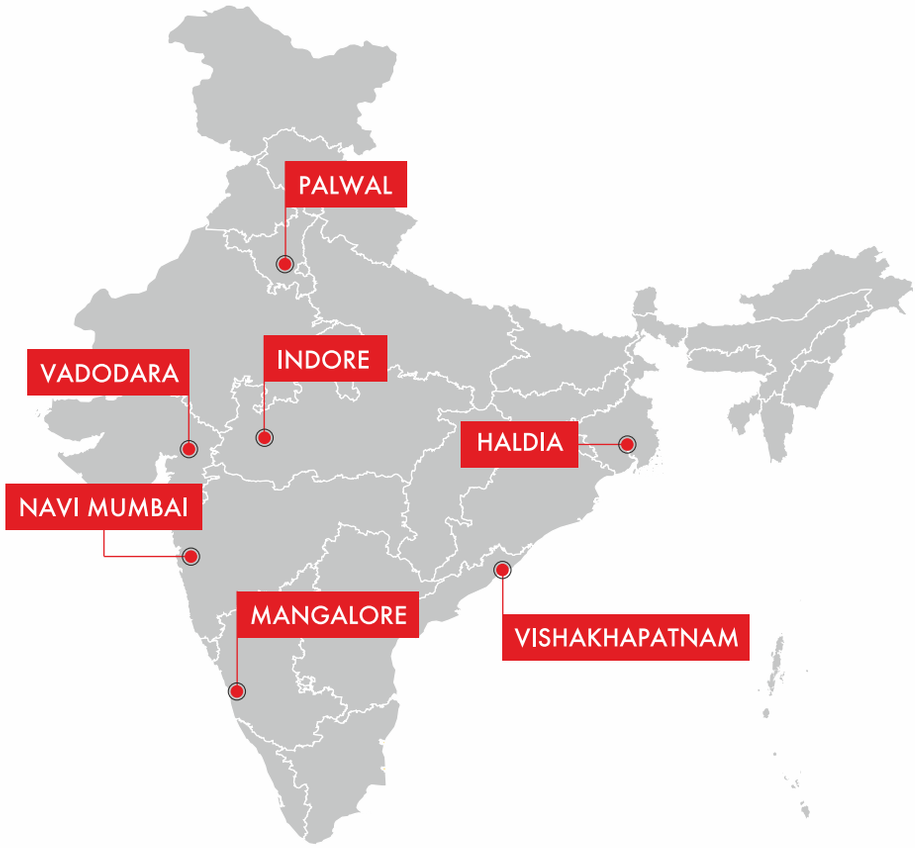
PNP ENGINEERING WORKS (P) LTD.
KAEFER
Shree Engineers
LORVEN INTERNATIONAL
Tuaman A Complete EPC Solution
OIL Delivering Endlessly Offshore Infrastructure Limited
MITSUBISHI HEAVY INDUSTRIES
VTV VIJAY TANKS & VESSELS (P) LTD. SINCE 1956
INSULTEC
SOPAN
HEAT SHIELD One Stop Insulation Solutions ISO9001 UAE COMPANY

CONSULTANTS & PROJECTS SERVICED BY TIKI TAR



Our nationwide footprint gives us numerous benefits. Moreover, it give us a unique platform from which we serve our customer and projects anywhere across India. With Plants situated close to theirs, we are in a position to support their developments whenever they arise.

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.

Vadodara Office

1, 216, Near Telephone Exchange, Pratappura, Halol,panchmahals, Gujarat, 389350

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Delhi Office

Building No./flat No.: 1205 Name Of Premises/building: Akashdeep Building Road/street: Barakhamba Police Station Road City/townnillage: New Delhi District: New Delhi State: Delhi Pin Code: 110001

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Mumbai Office

Tiki Tar Industries (Baroda) Ltd., Tiki Tar Estate, Village Road, Bhandup West, Mumbai 400078

TIKI TECH

LEED compliant

Zero or Low VOC

Antifungal

Antibacterial

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