



AN ISO 9001 : 2008 CERTIFIED  
COMPANY



MASTICS, ADHESIVES, SEALANTS, TAPES AND PROTECTIVE COATINGS



CAPRICORN COATINGS & COLOURS  
THERMAL INSULATION ACCESSORY MATERIALS

# ABOUT US

Capricorn Coatings & Colours is India's trusted name in thermal insulation accessory materials, proudly serving industries for over 18 years. Established in 2007 and headquartered in Ankleshwar, Gujarat, we manufacture a specialized range of mastics, adhesives, sealants, vapor barrier coatings, and other performance-driven products that are essential to modern insulation systems.

We cater to a broad spectrum of sectors - from refineries, petrochemical plants, and LNG terminals to data centers, cold storage units, and HVAC networks - offering tailor-made solutions that withstand harsh environments, temperature extremes, and demanding technical specifications.

At Capricorn, our strength lies in innovation, reliability, and technical excellence. Every product is developed in-house with a focus on low VOCs, long-term durability, and global compliance standards (ASTM, IS, EN). Our fully equipped production unit and dedicated quality control lab ensure consistency batch after batch, project after project.

## CLIENTS CHOOSE CAPRICORN FOR :

- Proven track record in critical national projects
- High-performance formulations tailored for hot and cold applications
- Fast, flexible service backed by strong technical support
- Commitment to sustainability and safety

From sealing pipe joints to safeguarding cryogenic insulation, we don't just manufacture - we protect, we enhance, and we enable your systems to last longer.

## Applications of Thermal Insulation Accessory Products

At Capricorn Coatings & Colours, our range of mastics, sealants, adhesives, bituminous coatings, and heat transfer cements plays a vital role in enhancing the performance, durability, and reliability of thermal insulation systems. These products are engineered to deliver seamless bonding, vapor protection, corrosion resistance, and energy efficiency - even in the harshest industrial environments.

## INDUSTRIES & AREAS OF USE :

### 1. OIL & GAS REFINERIES

Applied on insulated pipelines, columns, and vessels to prevent corrosion under insulation (CUI) and retain thermal efficiency in high-temperature zones.

### 2. PETROCHEMICAL COMPLEXES

Designed for chemically aggressive and high-humidity environments, ensuring tight insulation sealing and long-term performance on process equipment.

### 3. LNG TERMINALS & CRYOGENIC FACILITIES

Used in ultra-low temperature applications to prevent vapor ingress. Our specialized cryogenic mastics and vapor barrier coatings are trusted in mission-critical insulation systems.

### 4. POWER PLANTS (THERMAL, NUCLEAR, SOLAR)

Support ductwork, turbine housings, steam pipelines, and boilers, reducing thermal loss and protecting vital insulation layers from aging and degradation.

## 5. FERTILIZER & CHEMICAL PLANTS

Provide chemical resistance and moisture protection for insulation exposed to fluctuating temperatures and corrosive fumes.

## 6. OFFSHORE PLATFORMS & MARINE APPLICATIONS

Formulated to endure saline air, constant vibration, and extreme weather, ensuring insulation systems remain intact and effective.

## 7. PROCESS INDUSTRIES (PAPER, PULP, CEMENT, SUGAR)

Used to seal insulation around dryers, kilns, tanks, and rotary equipment, significantly reducing heat loss and maintaining process stability.

## 8. PHARMACEUTICAL & FOOD PROCESSING UNITS

Ensure hygienic sealing of insulated surfaces in temperature-sensitive zones, where cleanliness and thermal stability are paramount.

## 9. BUILDING & HVAC SYSTEMS

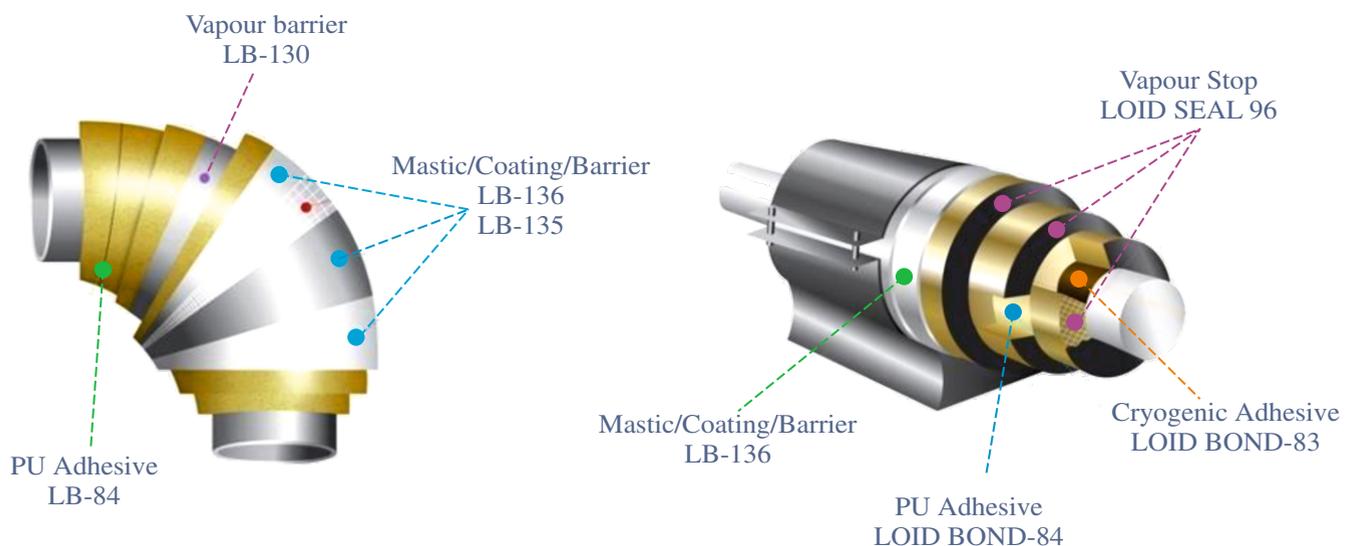
Used in chilled water pipelines, ducts, roofs, walls, and acoustic enclosures to improve thermal efficiency and moisture resistance in commercial and institutional buildings.

## 10. UNDERGROUND PIPING & STORAGE TANKS

Protect buried insulation systems from soil moisture, corrosive agents, and thermal cycling, ensuring long service life.

Capricorn's accessory products are the unsung heroes of insulation systems - small in volume, but critical in performance. From sub-zero cryogenic lines to superheated process pipes, we ensure your insulation lasts longer, seals tighter, and performs better.

# CAPRICORN PRODUCT CATALOGUE (MASTICS)



# CAPRICORN PRODUCT CATALOGUE (MASTICS)

Mastics are at the heart of every reliable industrial insulation system, acting as the primary barrier against moisture, chemical exposure, and environmental degradation. Our range of industrial mastics is engineered to deliver long-lasting protection to insulated surfaces, whether in refineries, LNG terminals, fertilizer plants, or power generation facilities.

Manufactured using advanced polymeric and bituminous bases, our mastics provide excellent adhesion to a wide variety of insulation materials including mineral wool, polyurethane foam, cork, and cellular glass. They remain flexible across temperature extremes, resist cracking, and retain their vapor barrier integrity even under mechanical vibration and thermal cycling.

Available in both solvent-based and water-based formulations, our mastics are applied easily by brush, trowel, or spray. Each product is developed to meet global performance benchmarks, including ASTM and CSTM standards, ensuring consistent quality across applications.

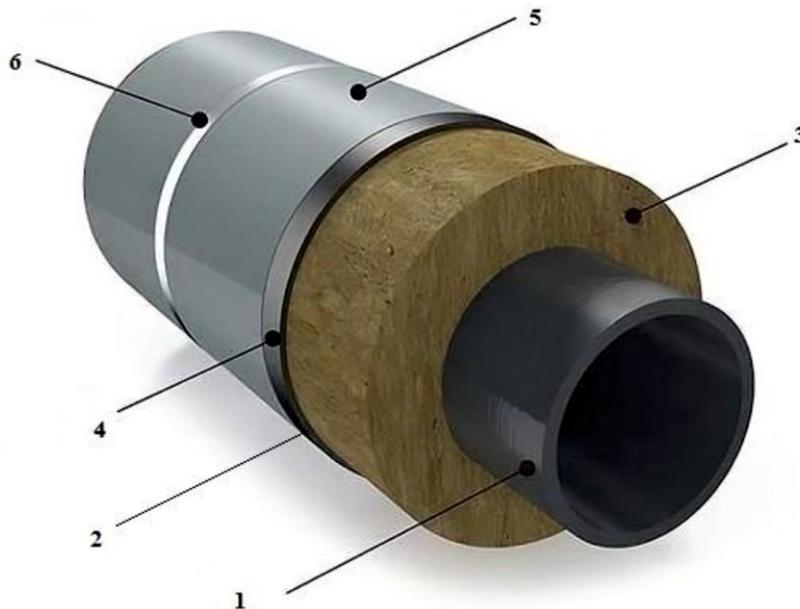
Whether you're looking for a fire-resistive, aluminum-finish mastic or a bituminous vapor barrier for heavy-duty service, our mastic solutions offer dependable performance for every industrial environment.

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
LB-130	Fire Resistive Aluminium Mastic	Protection of insulation below ambient temp, weatherproof, vapour barrier. Not for polystyrene.	-40°C to 125°C
LB-131	Fire Resistive Aluminium Mastic	Durable vapour barrier for all insulation types except polystyrene. Nonflammable solvent base.	-35°C to 80°C
LB-100	Bituminous Vapour Barrier Mastic	Low temp insulation protection, weatherproofing, vapor barrier. Not for polystyrene > 40°C.	-35°C to 80°C
LB-135	Fire Resistive Mastic	Chlorosulphonated PE based polymer for insulation below ambient. Not for polystyrene.	-45°C to 120°C
LB-136	Fire Resistive CSP Based Vapour Barrier	Flexible elastomeric mastic for rigid insulation. Excellent weather resistance.	-45°C to 120°C
LB-60	Fire Resistive Mastic	Tough water-vapour barrier for below ambient insulation. Not for polystyrene.	-40°C to 90°C
CC-9	Weather Barrier Mastic	Heavy-duty weather protection for dual-temp insulation. Chemical resistant coating.	-40°C to 85°C
LB-65	Fire Resistive Coating	Low temp insulation & weather barrier; protects vessels, pipework. Not for polystyrene.	-45°C to 105°C
VINALOID	Polymeric Fire Resistive Coating	Protects thermal insulation on piping, vessels; applicable on wool, foam, cork, etc.	-40°C to 85°C
CC-404	Acrylic Latex Weather Barrier Coating	Used on FOAMGLAS insulation where a superior weather barrier is needed.	-30°C to 180°C
LOID SEAL 35	Vapour Barrier Sealer	Dual temp service, corrosion protection, sealing joints in rigid insulation, flashing compound.	-80°C to 140°C
LOID SEAL 77	Flexible Vapour Barrier Sealer	Dual temp for rigid insulation, joint sealant for metal jacketing systems.	-70°C to 150°C
LOID SEAL 94A	Metal Joint Sealant	For metals and insulation joints, seals laps of aluminium jackets. Not for polystyrene.	-100°C to 125°C
LOID SEAL 95	Copolymer Resin Vapour Sealant	Joint sealant in metal and insulation, chemical/ weather resistant.	-35°C to 90°C

# CAPRICORN PRODUCT CATALOGUE (MASTICS)

LOID SEAL 96	Cryogenic Vapour Adhesive	Sealant/coating for cellular glass, PU, fibrous glass; adhesive for lap joints.	-180°C to 80°C
LOID SEAL 97	Flexible Vapour Barrier Sealer	For PIR, foam board, dual temp insulation, flashing compound, bedding.	-150°C to 105°C
CC-444	Vapour Barrier Sealant	Dual temp, corrosion resistance, bedding & flashing compound.	-70°C to 140°C
CAPRISEAL RTV	Silicone Sealant	Sealing aluminium jackets, joints in metal, glass, ceramic, synthetic materials.	-50°C to 200°C
CAPRISEAL HIGH TEMP	High Temperature Sealer	For ovens, chimneys, fire ducts. Seals joints up to 550°C.	250°C to 550°C
CAPRISEAL WEATHER	Weatherproofing Sealant	Control joints, expansion joints in panels, tiles, masonry.	-50°C to 155°C
LOIDKOTE -9	Fire Resistive Anti-Abrasion Coating	For inner surfaces of cellular glass, PU, polyisocyanurate, foam. Reduces abrasion from vibration & temperature fluctuations.	-95°C to 93°C

## SPECIFICATION – HOT WORK INSULATION



1. Pipe line
2. Adhesive - LOID BOND-87 & LOID BOND -17
3. Insulation material - LRB Mattresses or mineral wool
4. Mass loaded vinyl (MLV)
5. Metal cladding
6. Metal joint sealant.

# CAPRICORN ADHESIVES

Our high-performance adhesives are specially formulated for bonding insulation materials to a wide range of structural surfaces, ensuring long-lasting adhesion in demanding industrial environments. Whether applied in refineries, petrochemical units, LNG terminals, or fertilizer plants, our adhesives are engineered to meet the exacting standards of thermal and mechanical performance.

Designed for compatibility with fibrous glass, polyurethane foam, calcium silicate, foam glass, and PIR boards, our adhesive solutions offer excellent bond strength, flexibility, and resistance to thermal cycling. They are available in both solvent-based and water-based systems, with rapid curing options for time-sensitive applications.

From lightweight sprayable adhesives for duct linings to high-tack trowel-grade formulations for rigid insulation boards, our portfolio supports a wide range of field conditions and application techniques. Each product undergoes rigorous testing to ensure stability, non-combustibility (where applicable), and compliance with international specifications.

With our adhesives, contractors and insulation professionals can expect ease of application, strong adhesion, and consistent performance even in the most challenging industrial settings.

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
Loid Bond-17	Adhesive for fibrous & rigid foam insulation, polystyrene etc. Incombustible, water-resistant.	Stick Kraft foil, glass cloth, polystyrene to fibrous insulation.	-10°C to 500°C
Loid Bond-71	Synthetic resin emulsion adhesive. High tack. Water-based.	Bonds PIR/polyurethane to metal, gypsum board, steel surfaces.	-29°C to 60°C
Loid Bond-80	Quick-setting adhesive for fibrous glass and ducts. Thin liquid.	Bonding acoustic/fibrous lining to air duct sheets.	-30°C to 95°C
Loid Bond-83	Cementing adhesive for insulation. Fire & corrosion protective.	Adhesive for pipe and joint seals; fire retardant barrier.	-59°C to 150°C
Loid Bond-84	2-part urethane high strength adhesive. Shock-resistant..	Bonds low-temp foam to metals, polystyrene. No bleed-through.	-190°C to 93°C (foam), -162°C to 93°C (metal), -73°C to 93°C (glass)
Loid Bond-87	Adhesive for dense insulation like magnesia and asbestos.	Not recommended in moisture. Water-soluble when dry.	10°C to 450°C
Loid Bond-88	Adhesive for SS foil and hard insulation board. High strength.	Bonding SS foil to foil and metal to insulation.	Up to 540°C
CC-88 (Adhesive)	2-part FOAMGLAS adhesive. Excellent wetting, thermal shock resistant.	Bond FOAMGLAS to substrates. Flexible adhesive joint.	-56°C to 82°C

# CAPRICORN SEALANTS

A sealant is a specialized material used in cold insulation systems to block the passage of air, moisture, and vapor through joints and seams. Its primary function is to maintain the integrity of the insulation by preventing condensation and protecting against corrosion under insulation (CUI). Sealants are typically applied at insulation terminations, overlaps, and around pipe fittings to ensure a continuous barrier. They are designed to remain flexible over a wide temperature range, adhere strongly to various surfaces, and resist degradation from environmental exposure. In cold insulation setups, sealants are crucial for long-term performance and energy efficiency.

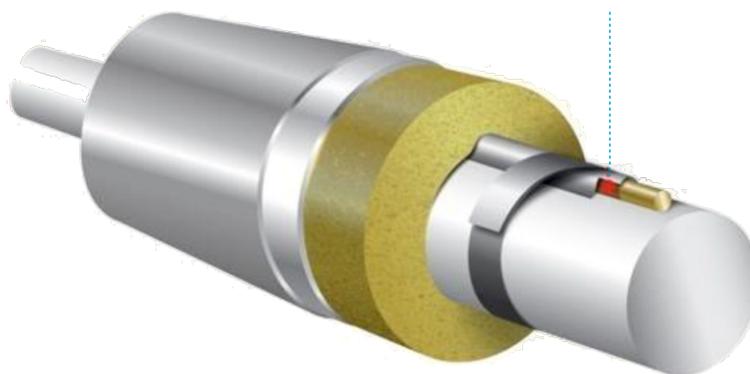
PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
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CAPRISEAL HIGH TEMP	High Temperature Sealer	For ovens, chimneys, fire ducts. Seals joints up to 550°C.	250°C to 550°C
CAPRISEAL WEATHER	Weatherproofing Sealant	Control joints, expansion joints in panels, tiles, masonry.	-50°C to 155°C

## Other High Performing Capricorn's Thermal Insulation Accessory Materials

PRODUCT	DESCRIPTION	USE	SERVICE TEMPERATURE LIMITS
Capriplast	Black rubberized bituminous adhesive/mastic in soft paste form. Non-corrosive, flexible, cold applied.	Fixing Thermocole, PU foam, fiberglass; crack filling in concrete roofs & AC sheets.	Up to 37°C (Flash Point)
Caprikot T-12 & T-14	Water-based bituminous emulsion with fibrous fillers. Non-toxic, solvent-free.	Thermal insulation coating; jointless barrier for pipe/equipment insulation.	-23°C to 180°C
Bitumen Primer	Black bituminous anticorrosive primer conforming to IS 158.	Primer on steel, water tanks, insulation substrates.	Flash Point 35°C
Capriseal Firestop Sealant	Grey elastomeric fire joint sealant; fast setting, high flexibility.	For HVAC, electrical conduits, plumbing, duct joints, wood/metal fixtures.	-7°C to 93°C
Capriseal-219 Fire Stop Putty	Dark grey, moldable, non-hardening firestop putty; 100% solids, reusable.	Cables, blank openings, fire stop around pipes & penetrations.	Up to 800°C (2 hrs duration)
HTC-536 Heat Transfer Cement	Inorganic black-grey cement for piping heat transfer; high bond strength.	Enhances thermal conductivity in tracer pipes; fire resistant and non-combustible.	Up to 625°C
CAT-9 Self Setting Cement	Inorganic mineral-based thermal insulation cement; impact and abrasion resistant.	Surface layer on pipe works, tanks, ducts, chemical plants; conforms to BS 476 Pt 4.	Initial Set: 24 hrs; Max ~1250 kg/m <sup>3</sup>
Capriseal Shield 3mm APP Membrane	APP-modified polyester reinforced bituminous waterproofing membrane.	Used on slabs, bridges, basements, roof gardens for waterproofing.	Withstands cold and warm temperatures
Cutback Bitumen RC-70	Bitumen + distillates (kerosene/diesel) for cold application; high penetration & ductility.	Penetrating prime coat, patching mixes, adhesion agent for aggregate surfaces.	Up to 315°C

## HEAT TRANSFER CEMENT

Heat Transfer Cement  
HTC - 536



## 1. ECONOMICAL & LOCALLY DRIVEN

Capricorn Coatings brings unmatched local expertise, deep market insight, and large-scale supply capabilities. Our efficient systems help customers cut down both cost and time - making us a preferred partner across the insulation protection industry.

## 2. FIRE-RESISTANT FORMULATIONS

Our products are engineered to meet stringent fire safety norms. Designed specifically for fire resistance, they ensure superior safety for people, infrastructure, and critical assets during project execution.

## 3. UNMATCHED PROTECTION FOR THERMAL INSULATION

Capricorn solutions deliver top-tier protection from water vapor, moisture, and corrosion. With ultra - low permeability and resistance to chemicals and corrosive gases, our coatings safeguard insulation even in extreme environments.

## 4. EFFORTLESS APPLICATION

All materials are pre-blended and supplied ready-to-use in single-component packs. With no on-site mixing required, application becomes faster, cleaner, and more reliable—enabling quicker project turnarounds.

## 5. Adapts to Complex Insulation Profiles

Capricorn's coatings offer superior conformability. Their enhanced flexibility allows seamless bonding to complex insulation geometries without cracking or delamination, ensuring long-term reliability.

## 6. Free from Chlorides

Our coatings are manufactured to be completely chloride-free, whether water or solvent-based. This ensures they are safe for sensitive applications and do not cause surface stress corrosion, especially on metals like stainless steel.

## 7. Strong Bonding to Metal & Insulation

With a visco-elastic binder and a tightly woven polymer network, Capricorn coatings adhere permanently to both insulation and metallic surfaces, offering unmatched grip and durability.

## 8. Handles Extreme Temperatures

Designed for flexibility and strength, our polymeric formulations perform excellently across a wide range of temperatures without cracking, delaminating, or losing integrity.

## 9. Consistent, Trusted Quality

Our modern manufacturing processes and strict quality control systems guarantee uniformity and performance across every batch—be it adhesives, mastics, coatings, or sealants.

## 10. Resists Swelling or Deformation

Even in high-moisture or chemically aggressive settings, Capricorn's advanced chemistry prevents swelling, soaking, or buckling—preserving the product's shape and performance.

## 11. Long-Lasting Film Integrity

With high-performance binders and fillers, Capricorn coatings form a durable, flexible dry film. This film resists oxygen, salt, and moisture ingress—delivering outstanding corrosion resistance and long-term integrity.

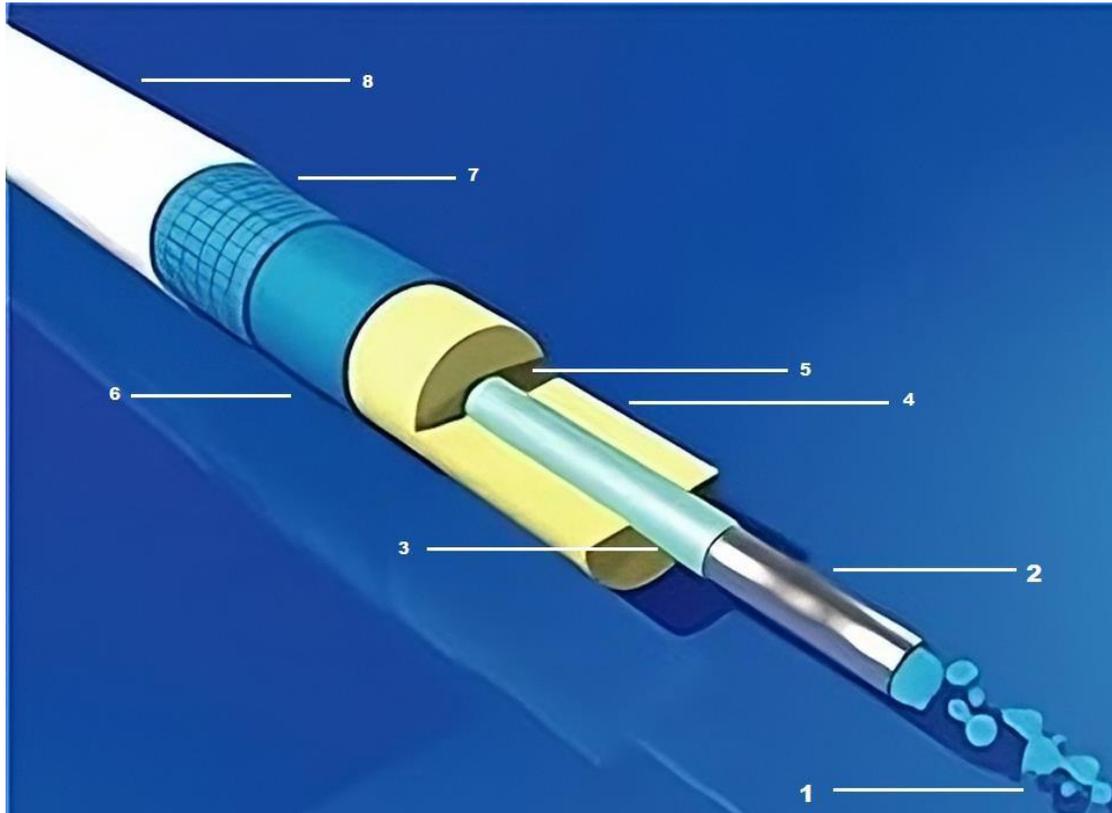
# SPECIFICATION - COLD WORK INSULATION

Vessel Temperature:  $-73^{\circ}\text{C}$  to  $15^{\circ}\text{C}$

Insulation used: Polystyrene, Glass wool, Polyester

Application: Internal/external light duty

Examples: Chilled water piping; coolant/refrigerant lines , Freezers



1. Low Temperature Fluid
2. Pipe Line
3. Adhesive – Loid Bond -83
4. Insulation Material Like P.u Foam
5. Sealant For Joints Of Insulation Materials –loid Seal 97
6. Vapour Barrier Mastic – Lb-135
7. Glass Cloth For Reinforcement Of Mastic Layer
8. Finish Coat Of Vapour Barrier Mastic – Lb-135

## QUALITY PARTNERS



## CLINTELE



## CONSULTANTS & PROJECT



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