



# CHEMIPROTECT

A CHALLENGE TO CORROSION



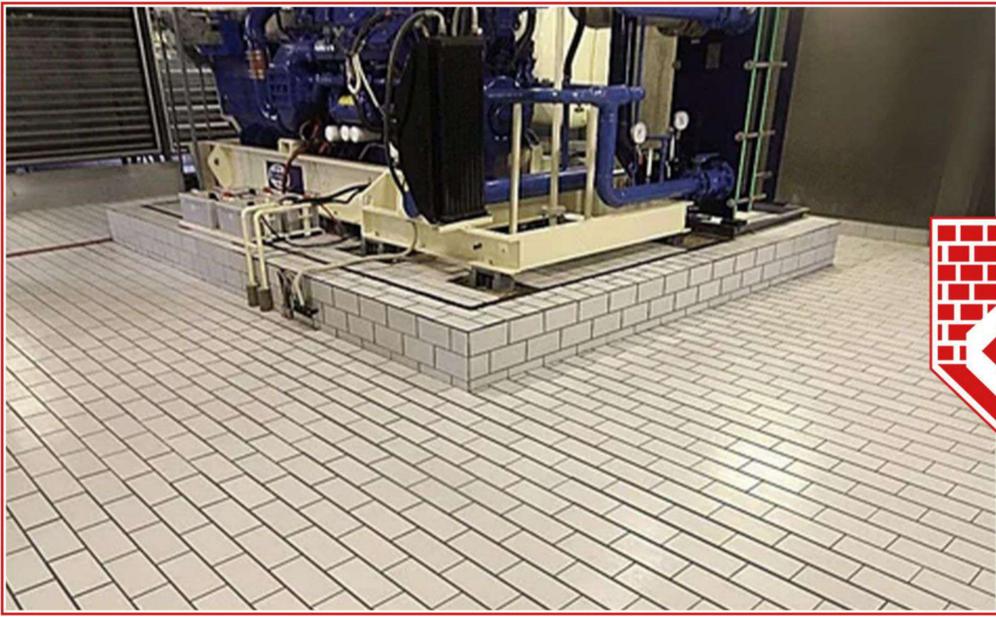
# PROTECTING INDUSTRIES SAFEGUARDING ENVIRONMENTS.

ADVANCED CORROSION SOLUTIONS FOR A SAFER TOMORROW

Guarding People, Assets & The Environment



**Industrial Safety, Environmental Sustainability, & Corrosion Protection.**



## ADVANCED CORROSION PROTECTION FOR THE TOUGHEST INDUSTRIAL ENVIRONMENTS

Industries grappling with the use or production of corrosive or hazardous chemicals face the ongoing challenge of maintaining safety and reliability within their facilities, all while prioritizing environmental preservation. For decades, beginning in the mid-1960s, wide vertical's of industries entrusted the protection of their infrastructures to acid brick linings, meticulously crafted using CHEMIPROTECT ENGINEERS'S chemical-resistant mortars and membranes, as a pivotal strategy in pursuing these essential objectives.

Although the enduring reliability of acid brick linings remains a cornerstone for addressing the demands of severe chemical, mechanical, and thermal conditions, the contemporary landscape now offers a diverse array of corrosion-resistant linings and materials. Today, this expanded range of options provides industries with more adaptable and tailored solutions to enhance plant safety, reliability, and environmental sustainability. At We Chemiprotect Engineers, we proudly offer a comprehensive suite of corrosion protection solutions, specifically designed to address the varied needs of industrial processors.

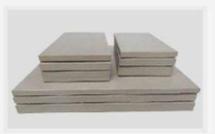
Acid/Alkali Resistant Mortar



Acid Resistant Brick



Acid Resistant Tiles



Epoxy Products



Glass Flake Products



PU Products



# PRODUCT FEATURES :



Jointless, liquid-impermeable, chemical-resistant



Attractive Apperance, Colorfast



Resistant to impact & shock



Slip Resistant



Robust & abrasion-resistant



Hygienic & easy to maintain



Withstands Heavy Loads



**Acid/Alkali Resistant Mortar** is a special material used to protect surfaces from damage caused by acids and chemicals. It is commonly applied in factories, plants, and industrial areas where strong chemicals are used.

This mortar forms a **tough, protective layer that prevents corrosion** and increases the lifespan of equipment and structures. It is especially useful in industries like chemical processing and food manufacturing, where it helps keep surfaces safe from harmful substances.



**MIPRO-E HYB**  
HYBRID EPOXY MORTAR



**MIPRO-E HYB** mortar is a versatile three (3)-component chemical resistant hybrid Novolac Epoxy Resin base mortar. The product exhibits excellent bond strength, high chemical resistance and reliable curing characteristics.



**MIPRO-CP**  
CNLS MORTAR



**MIPRO-CP** is a two-part cashew-phenolic mortar for acid-resistant brick lining, protecting materials like RCC, steel, and brick masonry from corrosive environments. It resists acids, alkalis, and solvents up to 170°C.



**MIPRO-K**  
SILICATE MORTAR



**MIPRO-K** is Silicate type, two-part chemical setting mortar. It is recommended against permanently acidic condition, and can withstand much higher temperature compared to other resin type & sulfur type mortar.



**MIPRO-K SPL**  
POTASSIUM SILICATE MORTAR



**MIPRO-K SPL** is a two-part inorganic potassium silicate mortar, ideal for permanent acidic conditions. It withstands higher temperatures and is highly recommended against concentrated sulfuric, nitric, and chromic acids.



**MIPRO-E**  
EPOXY MORTAR



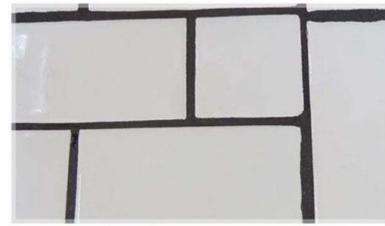
**MIPRO-E** is a three parts chemical setting epoxy resin base mortar. It exhibits excellent adhesion to acid resistant bricks/tile, concrete, MS surface. MIPRO-E is resistant to very wide range of chemicals



**MIPRO-VE**  
VINYL ESTER MORTAR



**MIPRO-VE** is a silica-filled vinyl ester mortar for floors, sumps, tanks, and more in various industries. It resists oxidizing bleaches, acids, alkalis, and some solvents. It protects concrete and steel from chemical and physical damage.



**MIPRO-FA**  
FURAN MORTAR



**MIPRO-FA** is a two-part Furan mortar for bonding acid-resistant bricks and tiles. It resists a wide range of chemicals and temperatures up to 170°C. MIPRO-FA 'C' is carbon-filled for resistance to hydrofluoric acid and strong hot alkalis.



**MIPRO-POL**  
POLYESTER MORTAR



**MIPRO-POL** is a three parts chemical setting epoxy resin base mortar. It exhibits excellent adhesion to acid resistant bricks/tile, concrete, surface. MIPRO-POL is resistant to very wide range of chemicals.



**MIPRO-P**  
PHENOLIC MORTAR



This two-pack **Phenolic Mortar** bonds acid-resistant brick masonry, offering excellent protection against corrosive conditions, especially sulfuric acid up to 70%. It ensures durability and long-lasting performance in harsh environments.



**MIPRO-S**  
SULPHUR MORTAR



**MIPRO-S** is a hot-pour, plasticized sulfur compound for use with acid-resistant bricks. It protects floors, tanks, sumps, and pits in steel and electroplating industries. Ideal for harsh environments and heavy-duty applications.



**MIPRO-PR**  
ANTI CORROSIVE PRIMER



**MIPRO-PR** is a primer for protecting concrete, steel, and wood against atmospheric and chemical corrosion. It is ideal for use before finish coats, screed, or brick/tile linings. Ensures long-lasting protection in corrosive environments.



**MIPRO-MC**  
MASTIC COMPOUND



**MIPRO-MC** is used as an inter-liner with acid-resistant brick linings for floors, tanks, and sumps, protecting against corrosive environments. It can be applied as heavy-duty mastic flooring. Ideal for safeguarding structures in modern chemical industries.

## ACID RESISTANT BRICK



Chemiprotect Engineers offer **high quality acid & alkali resistant** unglazed clay bricks (confirming to class-I of IS-4860 & ASTM C-279 Type II) for application of acid/alkali resistant lining.



DESIGN VIEW FOR ACID RESISTANT BRICK/TILE LINING  
THE MEMBRANE BRICK/TILE/STONE LINING



DESIGN VIEW FOR ACID RESISTANT BRICK/TILE LINING  
THE DIRECT BOND



## FEATURES & ADVANTAGES

### CHEMICAL RESISTANCE

Resistant to corrosive attack from most Acid/Alkali/Solvents/Chemicals.

### ABRASION RESISTANCE

Resistant to high abrasion even when exposed to high chemical conditions  
HIGH TEMPERATURE RESISTANCE

### THERMAL SHOCK RESISTANCE

Can withstand temperature change even under immersion conditions.  
HIGH IMPACT STRENGTH

## USES

- Chemical Resistant Flooring, Drain & Pit Lining
- Acid Mfg. plant Towers & Columns
- Effluent/Sewerage Treatment Plants
- Vessels & Tanks Lining
- Chimney, Flue & FGD Plant
- Chutes/Hoppers/Tanks/Silos
- Secondary Containment Area

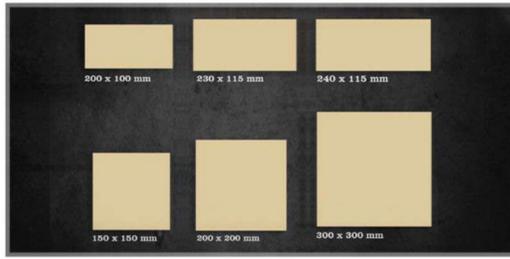
## LIMITATIONS

- Not suitable if exposed to HF acid, fluoride, fluoride salt solution
- Not suitable if exposed to strong, hot, high conc. Of Caustic solution
- Sudden (very rapid) temperature change

# ACID RESISTANT TILES



Chemiprotect Engineers offer **high quality acid & alkali resistant** unglazed clay tiles (confirming to class-I of IS-4457) for application of acid/alkali resistant lining.



DESIGN VIEW FOR ACID RESISTANT BRICK/TILE LINING  
THE MEMBRANE BRICK/TILE/STONE LINING



DESIGN VIEW FOR ACID RESISTANT BRICK/TILE LINING  
THE DIRECT BOND



## FEATURES & ADVANTAGES

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### HIGH TEMPERATURE RESISTANCE

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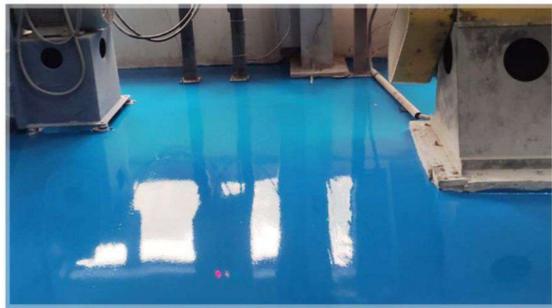
## USES

- Chemical Resistant Flooring, Drain & Pit Lining or food, beverages, Dairy, chemical plants.
- Effluent/Sewerage Treatment Plants
- Vessels & Tanks Lining
- Chimney, Flue & FGD Plant
- Chutes/Hoppers/Tanks/Silos
- Secondary Containment Area

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# EPOXY PRODUCTS



**MIPRO-E S/L**  
SELF LEVEL EPOXY FLOORING

MIPRO-E S/L is a seamless, self-smoothing epoxy flooring system laid between 2-3 mm in a single application. Thoroughly prepare the floor surface, if necessary repair and level the floor surface. Apply primer MIPRO-EP solvent free epoxy primer by roller and allow to cure.



**MIPRO-EC (HYB)**  
C.R. HYBRID EPOXY COATING

MIPRO-EC HYB is a two part high solids solvent free novolac epoxy resin based coating system designed for hard wearing, smooth surface finish for floors, walls and on steel structures. Nonskid surface finish can be achieved on floor, if required.



**MIPRO-EC**  
EPOXY COATING

MIPRO-E S/L is a seamless, self-smoothing epoxy flooring system laid between 2-3 mm in a single application. Surface Preparation Substrate should be structurally sound, clean and free from loose particles, oil, grease and other contaminants.



**MIPRO-EP**  
EPOXY PRIMER

MIPRO-EP is an 100% solid epoxy polyamide primer. Some of the components of this product may be hazardous during mixing and application along with surface preparation Method will depend on the type of surface and service condition which it will operate.



**MIPRO-EPR**  
EPOXY PATCH REPAIR MORTAR

MIPRO-EPR is a 3 component high-strength, solvent-free epoxy resin repair mortar with graded quartz filler and special minerals for excellent abrasion resistance. MIPRO-EPR is supplied in a kit for easy on-site mixing and use.



**MIPRO-ESLS**  
EPOXY S.L. SCREED

MIPRO-E-SLS is a 3 component epoxy self-leveling under lay (base coat) leveling screed. Mixing Shake Pack A separately and mix well with Pack B in a mixing drum (approx. 20 liter capacity) for at least 30 seconds with a slow speed stirrer.



**MIPRO-ETA**  
EPOXY TILE ADHESIVE

MIPRO-ETA is a 3-component epoxy adhesive for fixing tiles, bricks, and stones on walls and floors. It provides strong bonding and is resistant to acids, alkalis, and water. Ideal for use in food processing, commercial kitchens, and high-traffic areas.



**MIPRO-ETS**  
EPOXY TROWEL SCREED

MIPRO-ETS is a three-component epoxy floor screed applied at 3-10mm thickness for durable, chemical-resistant flooring. Top coatings like MIPRO-EC or MIPRO-WBC enhance resistance and cleanability.



**MIPRO-WBE**  
WATER BASED EPOXY COATING

MIPRO-WBE MIPRO-WBE is a durable water dispersed, two pack epoxy coating. Formulated to provide a durable coating system for walls and floors subjected to light traffic. Available in a wide range of colors and in clear.

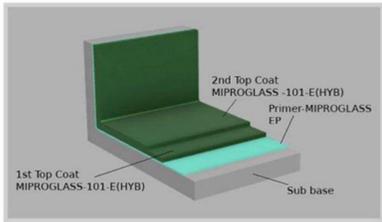


# GLASS FLAKE PRODUCTS



**Glass flake products** offer superior protection and durability, providing an exceptional barrier against harsh chemicals, abrasion, and corrosion. These products are engineered with fine layers of glass flakes that form a dense, impenetrable shield, enhancing the longevity of surfaces in challenging environments.

Their advanced formulation ensures long-lasting performance and reliability.



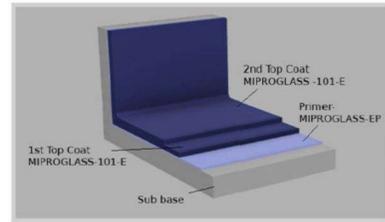
**MIPROGLASS 101 E (HYB)**  
G.F. HYBRID EPOXY COATING

**MIPROGLASS 101 E HYB** is a 100% solids, glass flake-filled Novolac epoxy coating for steel and concrete, applicable in thicknesses from 300 to 1500 microns. It offers excellent resistance to acids, alkalis, and other, suitable for corrosive environments and various application methods.



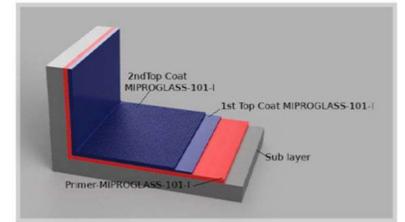
**MIPROGLASS 101 SV**  
G.F. HYBRID ESTER COATING

**MIPROGLASS 101 SV** coatings protect steel and concrete from corrosion and chemical spills with glass flakes for added abrasion and thermal shock resistance. Suitable for up to 120°C, they can be applied by brush or spray, with a thickness of 400-500 microns in two to four coats.



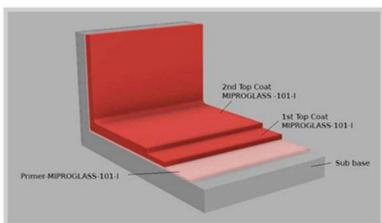
**MIPROGLASS 101 E**  
G.F. EPOXY COATING

**MIPROGLASS 101 E** coatings are polyester, vinyl ester, and epoxy-based, designed to protect steel and concrete from corrosion and chemical spills. Reinforced with glass flakes, they resist abrasion and thermal shock, withstanding temperatures up to 120°C.



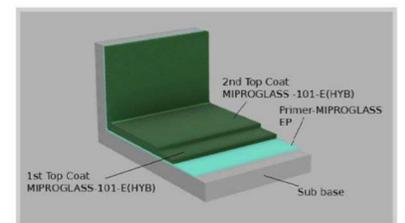
**MIPROGLASS 101 I**  
G.F. POLYESTER COATING

**MIPROGLASS 101 I** is an isophthalic resin coating with glass flakes, providing excellent corrosion resistance. It withstands temperatures up to 100°C and is suitable for immersion service. Applied in 750-1000 microns thickness, it cures at ambient temperature and can be applied by brush or spray.



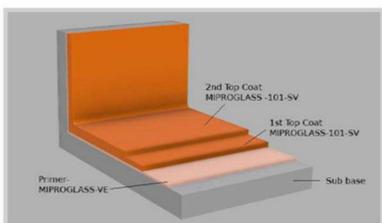
**MIPROGLASS 201 E (HYB)**  
G.F. HYBRID EPOXY LINING

**MIPROGLASS 201 E HYB** is a 100% solids, trowel applied, high performance, high chemical resistant C class glass flake reinforced Novolac epoxy lining system. MIPRO 201 E HYB is highly filled with carefully selected large size glass flakes.



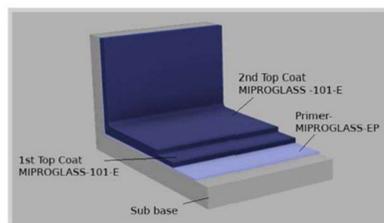
**MIPROGLASS 201 SV**  
G.F. VINYL ESTER LINING

**MIPROGLASS 201** linings offer heavy-duty protection for steel and concrete with excellent corrosion, abrasion, and chemical resistance. Reinforced with glass flakes, they withstand immersion up to 70°C and gas temperatures up to 150°C.



**MIPROGLASS 201 E**  
G.F. EPOXY LINING

**MIPROGLASS 201 E** linings provide heavy-duty protection for steel and concrete, offering excellent corrosion and abrasion resistance. Reinforced with glass flakes, they withstand immersion up to 70°C and gas temperatures up to 150°C, applied in 1-3mm thickness.



**MIPROGLASS 201 I**  
G.F. POLYESTER LINING

**MIPROGLASS 201** linings protect steel and concrete with high resistance to corrosion and abrasion. Reinforced with glass flakes, they handle immersion up to 70°C and gas temperatures up to 150°C, applied in 1-3mm thickness.



**MIPROGLASS PRIMER VE**  
VINYL ESTER PRIMER

This low-viscosity **Vinyl Ester Resin Primer** is used on concrete and steel before applying Vinyl Ester or Polyester coatings. It requires sandblasting on steel for optimal adhesion and penetrates concrete surfaces to improve coating performance.



**MIPROGLASS EP**  
EPOXY PRIMER

**MIPRO-EP** is a 100% solid epoxy primer, specially formulated high quality product for use with the mortar or any high built & glass flake filled coating system that requires extra bonding properties.

# PU PRODUCTS



**PU Products** deliver exceptional durability and versatility across a wide range of applications. Engineered for performance, these polyurethane-based solutions provide superior resistance to wear, chemicals, and environmental conditions.

Ideal for industries ranging from construction to automotive, PU products ensure long-lasting protection and reliability, making them the go-to choice for demanding environments.



**MIPROCRETE MF**  
SELF LEVEL PU CONCRETE

A flow applied, self-smoothing 3 component polyurethane topping in thickness from 3-6mm for industrial application and repairing system in matt finish offering versatility in performance, aesthetics and economics.



**MIPROCRETE HF**  
TROWEL PU CONCRETE

A 4 component polyurethane trowel applied screed in thickness from 6-9mm for industrial application and repairing system in matt anti-skid finish offering versatility in performance, aesthetics and economics.



**MIPROTHANE WBC**  
W.B. PU COATING

Two-component (2K) aliphatic polyurethane coatings set the standard for high-performance floors and are now available as water-borne systems. This technology delivers both durability and environmental protection for floors and walls.



**MIPROTHANE S/L**  
SELF LEVEL PU FLOORING

**MIPROTHANE-SL** is a two part-solvent based coloured self-smoothing polyurethane resin with tough-elastic properties.



## PHARMACEUTICAL INDUSTRY

A strong, durable, and seamless flooring that is resistant to chemicals and can be easily cleaned.



## DAIRY MANUFACTURING

Epoxy screed is a strong, long-lasting, and waterproof flooring technique that's often used in wet processes.



## PHOSPHORIC ACID/FERTILIZER

Phosphoric Acid Attack Tanks in Fertilizer Plants



## SULFURIC ACID PLANTS

Acid Towers & Sulfur Pits in Sulfuric Acid Plants.



## COAL-FIRED POWER PLANTS

Coal-fired Power Plant Ducts & Chimneys in Desulfurized Flue Gas Service



## PULP & PAPER MILLS

Digesters & Chlorination Towers in Pulp Bleach Plants



## STEEL MILLS

Pickle Tanks, Acid Regen, & Wastewater Collection' Trenches & Sumps



## PIGMENT & DYES

Chlorinators in Titanium Dioxide Plants



## METAL & MINERAL PROCESSING

Smelters & Cell House Infrastructure Corrosion Protection



## SPECIALITY & BASIC CHEMICAL PLANTS

Aluminium Sulfate Digesters. Chlor-Alkali Plant Infrastructure



## BATTERY PLANTS

Acid Battery Formation Rooms & Reclamation Bunkers



## FOOD & BEVERAGE PLANTS

Durable, Hygienic Process Flooring



## CHEMICAL FERTILIZER

Specialized coatings protect against corrosion, spills, & heavy traffic, ensuring a safe and long-lasting surface for storage facilities.



## CHLORO-ALKALI

Specialized coatings protect the surface from corrosion, spills, and abrasion, ensuring long-lasting performance.

# ABOUT

## CHEMIPROTECT ENGINEERS

**Chemiprotect Engineers** traces its roots back to a rich history of corrosion protection expertise that dates back to its origins within Natson Mfg. Co Pvt. Ltd. Established in the 1960's, the company initially focused on developing cutting-edge corrosion-resistant linings and materials for chemical manufacturing plants in India.

Over the years, this commitment to innovation and reliability has evolved, expanding into a diverse portfolio of corrosion protection solutions serving multinational clients worldwide. **Chemiprotect Engineers** operates situated in the vibrant city of Ahmedabad, India.

Throughout the company's journey, significant milestones have marked its growth and industry influence:

- In the 1960s, Late Shri Haribhai H Joshi was the key person in foundation of Natson Mfg. Co, Pvt. Ltd. A 1st & pioneering company to introduce corrosion resistance cement mortar mfg. in India.
- In 1970, Started own company in the name of INDUSTRIAL RESINS CORPORATION and served wide variety of industries from chemical fertilizer, Rayon, Paper & Pulp, Dyes & Pigments, Oil & Gas, Petrochemical & Refineries to name a few.
- In 1990, CHEMIPROTECT ENGINEERS started to cater with a rich experience of manufacturing & serving modern industries with some most advance polymer flooring, glass flake reinforced coating & lining for the 1st time in India.

Today, Chemiprotect Engineers continues to uphold its legacy of innovation, reliability, and commitment to providing top-tier corrosion protection solutions that meet the evolving needs of industrial clients worldwide.

 **CHEMIPROTECT ENGINEERS**  
Plot No. 2114, Phase III, G.I.D.C. Estate, Vatva, Ahmedabad-(India) - 382445.

 [www.acidproofindia.com](http://www.acidproofindia.com)

 [info@chemiprotectengineers.com](mailto:info@chemiprotectengineers.com)

 +91 9054296619

 +91 9724391689 (Office)



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