

PROTECK ANTI – CORROSIVES

ABRASION & CORROSION ENGINEERS

INDUSTRIAL PROSPERITY HAND – IN – HAND WITH ENVIRONMENT PROSPERITY
TO GO BEYOND MANDATORY REGULATIONS AND MINIMISE
POLLUTION & CORROSION LEVEL TO THE LOWEST POSSIBLE LIMIT

OUR MOTTO – **Specialist in Surface Protection**

STRIVING FOR A BETTER WORLD



EXPERTISED IN POWER, PAPER, CHEMICAL & WASTE WATER TREATMENT

ACID PROOF BRICK / ACID PROOF TILES / ACID RESISTANCE BRICK / ACID RESISTANCE TILES /
EPOXY LINING / LINING / MANDANA STONE LINING / CARBORUNDUM TILES /
FOAM CONCRETE BRICK / EPOXY SELF LEVELING / PPGL SHEET LINING / FRP / LDPE SHEET /
HDPE SHEET / EPOXY / MANUFACTURING OF ACID PROOF MATERIAL /
FURANE / CNSL / SILICATE POWER / BITUMEN MASTIC / BITUMEN PRIMER / PHENOLIC /
HEAVY DUTY INDUSTRIAL TILES

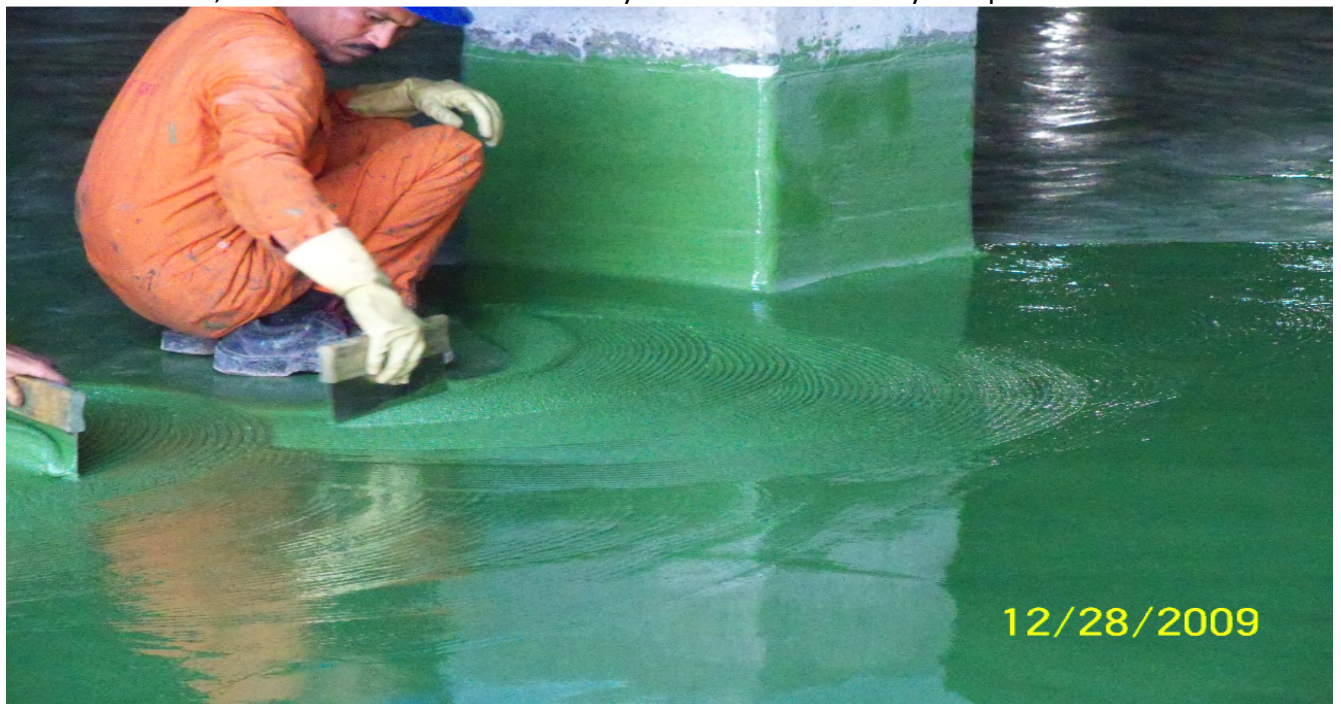
Proteck Anti – Corrosives (Formally known as **M/s Kera Tech India**) was established in the year 1985. In the same year it played a huge role to setup project like NTPC / PAPER / CHEMICAL INDUSTRIES.

The company has skilled personnel for the field and house work. This company has capability to do quality jobs all over India as well as abroad. **PROTECK ANTI – CORROSIVES** is also **running towards ISO 9001-2000** certification. The company plays a major role in various industry segments to protect industries like Fertilizer, Chemical plant, Steel Plant, Dyes and Intermediates, Power Plant, Pulp & Paper Industries, Food and Beverages, Parma, Oil & Gas and other various segments. It **PROTECK the NATURE for the FUTURE** of our upcoming generation.

Quality is watchword **PROTECK**. The highest level of quality control is absorbed right from selection of basic raw material for manufacturing final product and all stages of installation of CORROSION protection lining systems.

We hope that the information contained in this brochure has been of use to you and that it has persuaded you that **PROTECK ANTI – CORROSIVES** is a genuine market leader in the specialized field.

We cannot stress too highly the need to discuss potential requirements with us easy on in the design stage of any project. You will find us professional & objective in our advice. We will always endeavor to find a reliable, and cost efficient commercially oriented solution to your specific needs.



AREA TO BE PROTECTED BY CORROSION IN YOUR PALNT

POWER PLANT:-

01. BATTERY ROOM / DM WATER PANT / CHIMNEYS / CHEMICAL HOUSE / ETP TANKS

CHEMICAL PLANTS:-

02. PROCESS EQUIPMENT / WATER TREATMENT / FLOOR / DRAIN / FILTER BOX

FERTILIZER PLANT:-

03. OLEUM PLANT / VARIOUS TOWER / TANKS / SULFURIC / PHOSPHORIC ACID PLANT/
AMMONIUM SULFATE PLANT / UREA PRILLING TOWER / SILOS / DAP PLANT & ETC.



PERROCHEMICAL / STEEL PLANT:-

**04. PICKLING / WATER TREATMENT / EFFUENT TANK / SINTER / CHIMNEYS COAL TAR PITCH /
AMMONIUM SULFATE / PROCESS / STORAGE / LOADING / VCM / PVC / DSD / TANKS.**

Acid rain affects the whole environment. Polluted rain enters surface waters and permeates into the groundwater. It makes the aluminum in the soil reactive and leaches out the nutrients. Trees and plants are damaged both through the decrease in soil nutrients and also directly by the acidic rain falling on them. Biodiversity in areas affected by acid rain is likely to be poor. Areas affected by acid rain are found mainly in Europe, the United States of America and in China. Affected regions are generally close to highly urbanized and industrialized areas but long range transport of air pollutants can result in acid rain damage far away from the pollution sources.



ACID PROOF BRICK / TILES / MOTAR

PRIMER:-

AN INDUSTRIAL ASPHALT BASE ANTI CORROSIVE PRIMER AS PER IS: 158 USED TO BE PROTECTING STRUCTURE AGAINST AMTOSPHERIC CORROSION AND EFFECTS CREATED BY ACID FUMES AND DRY WET GASES.

MATIC:-

HOT MELT TYPE CORROSION RESISTANCE CEMENT IN POWER SHAPE WITH TWO COMPUND. RESISTS DILUTE ACIDES, ALKALIES, SALT ETC. BEST FOR HEAVY DUTY INDUSTRIAIL FLOORING AND BRICK / TILES INTER-LINER MATERIAL. EFFECTIVE LAYING SYSTEM FOR FLOOR / ELEVATED FLOORS OF CHEMICAL STROAGE TANK-PADS IN REFINERY / GASE / POWER / OIL PROJECT.

ACID RESISTANCE BRICK / TILES:-

Since the Corrosion Technology found, Acid Proof Bricks & Tiles are Prime and most effective material amongst all other anti-corrosive systems. The major Corrosion problems in all types of Industrial plants are solved by laying & fixing of Acid Proof Bricks, Tiles or Mandana Stones. We Manufacture following Thickness of Acid Proof Tiles & Bricks: 10mm, 12mm, 15mm, 20mm, 25mm, 38mm, & 75mm thick & always have the ready stock due to our continuous & huge production & stock capacity.

SILICATE MOTAR:-

A pure, buff white Powder and crystal clear Solution of K-Silicate base Mortar is generally used as a bedding mortar in all types of Acid Proof brick, tile and stone lining work. It is highly recommended where concentrated Sulphuric and Nitric Acids are used. It is most identical cement mortar for the Acid Proof and refractory brick lining work into the RCC CHIMNEYS & TOWERS since it has a unique nature of Acid and Heat Resistance. It may resist temperature upto 900°C.



CNSL:- A Unique Cashew base 2 component (Powder & Resin) Cement - Mortar is highest consuming Acid Proof Materials amongst all other Joint Filling Acid Proof Mortars. Cashew (CNSL) Mortar has excellent Resistance against both Acids and Alkalis upto its Specific limits. Widely used of Cashew (CNSL) Mortar as Bedding, Joint Filling or Bedding & Jointing materials for bricks / tiles or mandana stones lining works in several Industrial Projects has made this material an Identical and Cost reducing alternative to Furane and Phenolic Acid Proof Mortars. In Reaction / Storage Vessels, ETP/WTP Tanks, Drain, Pickling / Galvanizing Tanks in all Industrial Plants (CNSL) Cashew Mortar is most preferred & suitable as bedding, bedding & jointing or only Joint Filling materials to fix up Acid Proof Bricks, Tiles and Mandana Stones. Cashew (CNSL) mortar are most suitable & Identical Joint Filling Material for Laying & Fixing of S.W. (Stone Ware) pipes which leads effluent waste water from different plants to main ETP Collection Tanks. The Joints filled up with Cashew (CNSL) Acid / Alkali Proof Mortars give all plants trouble free services for years and years. Cashew (CNSL) Mortars is most suitable for Dyes & Intermediates, Steel, Power, Solvent Extraction, Textile, Metal Chemicals, Bulk Drugs, Yarn Processing, Rayon & Fiber, and Bromine Plants.

FURANE:- Prime 2 Component (Resin & Powder) Acid / Alkali / Solvent Resistant Furane: Resin base Mortar is used as a Bedding, Joint Filling or Bedding & Jointing Materials for Acid Proof Bricks, Tiles & mandana Stone lining work. In all fertilizer, petrochemicals, thermal power, pulp & paper, zinc & other precious metal treatment, oil refineries, Plants. Furane materials are always recommended in all above plants due to its high strength, excellent bonding & Acid & Alkali & Solvent resisting Nature.

PHENOLIC:- A very limited used 2 component Acid Proof PHENOLIC Resin base Mortar has very specific usages. Excellent Resistant against Sulphuric (H_2SO_4) Acid upto 93 % has made this material most identical for fertilizer, S.S.P., and other phosphates plants. Acid Proof Bricks, Tiles & Mandana stones bedded, bedded & Jointed or only pointed with our high quality Phenolic Resin base Mortars gives all above plants Trouble Free services for many years.

EPOXY POINTING:- Epoxy is most widely applicable and versatile material in Corrosion Technology. EPOXY used as Coating, Screeding, Bedding & Jointing material for Brick, Tile and Mandana Stone lining work in all industrial plants i.e. : Agro, Foods, Dairies, Pharmaceuticals, Bulk Drugs, Hospitals, Bravery & Breweries plants gives an excellent performance upto many years. Epoxy base Colorful & Joint less Screeding or Floor Coating are highly recommended in all above plants which provides dust free, very high strength and excellent Aesthetic view. Epoxy due to its very high compressive & bonding strength is very versatile material for grouting work in all types of RCC Structures, Foundations of D.G. Sets and Heavy Compressors, Bridges, Chimneys and Skyscraper buildings etc.



EPOXY FLOORING / PU FLOORING

Epoxy Flooring (*epoxy floor coating*) can be applied over many different materials, including steel, concrete, and wood. However, concrete is the best surface for laying epoxy floors. Epoxy floor coating performance is directly affected by surface preparation. The integrity and the service life will be reduced significantly if the surface is improperly prepared. A proper surface preparation ensures epoxy coating adhesion to the substrate and prolongs the life of the epoxy coating system.

Basic steps for concrete surface preparation:



Self Level Epoxy Topping for 2mm Thickness

Description: SLEF LEVEL is a solvent free, pigmented three component system consisting of liquid epoxy resin, specially formulated hardener and high quality fillers. In cured condition, It is hard, tough abrasion resistant material. It is resistant to wide range of chemicals including acids, alkalis, mineral oils, solvents etc. It also has excellent resistance to water. **Scope of use:** It is a self leveling system recommended over cement bound surfaces like concrete, screed and industrial tremix floors. Major applications are as floor toppings in automobile industries, home appliance industries, hospitals, pharmaceutical industries, dairy industries, agrochemical industries, chemical laboratories etc.



FRP / PPGL / PP SHEET LINING

FRP: - Fiberglass Reinforced Plastics, also known as GRP, or Glass Reinforced Plastics) is a modern composite material of construction for chemical plant equipment like tanks and vessels. Chemical equipment that range in size from less than a meter to 20 meters ^[1] is fabricated using FRP as material of construction. We manufacture the FRP tanks used for water storage, electroplating, powder coating, chemical's storage and vessels for chemical reaction. The behavior and the properties of the tanks depend on the grade resins used for fabrication purpose. Our high-grade resins withstand strong woods and high temperature. Reinforcement will be designed according to the size and shape of tanks. We also manufacture PVC/PP tanks re-enforced with FRP lining. The thickness and shape are developed as per the requirement.



PPGL SHEET LINING:-



CARBORUNDUM TILES (HEAVY DUTY INDUSTRIAL TILES)

CarboruNdum tiles have special ingredients of extraordinary hardness. Abrasion resistance far exceeds IS 1237 for heavy-duty tiles. Tiles effectively withstand forklift, trolley, and vehicular traffic. Consistent compressive strength makes tiles stronger and longer-lasting than other floors. Floors remain free from potholes and do not flake like stone or crack with age like concrete. Available in standard sizes of 25x25cm or 30x30 cm, and standard thickness of 25mm. Customized thickness from 22mm to 30mm are also available. Carborumdum tiles are rust-free hence free of pitting. Straight edges and special joint filers give strong joints and superior dust-free floor. Electronics, textiles, food, and pharmaceutical industries have selected for dust-free, anti-static floors. Carborumdum tiles can be individually laid or replaced in a running factory. Easy to relocate equipment, alter factory layouts or tile around columns. Carborumdum tiles engineered to give the best value for money. With extra long life, little or no maintenance, no wastage while laying, and no annual coatings needed. Carborumdum tiles can be individually laid or replaced in a running factory. Easy to relocate equipment, alter factory layouts or tile around columns.



CARBORUNDUM TILES :-

IS THE SOLUTION TO THESE PROBLEMS? TO MAKE IT WEAR-RESISTANT, IT IS MANUFACTURED USING A MINERAL VERY CLOSE TO DIAMOND IN HARDNESS. A MOULDING HYDRAULIC PRESSURE OF 2000 POUND PER SQUARE INCH IS APPLIED TO MAKE THE TILES COMPACT. THUS, WATER TO CEMENT RATIO BECOME VERY LOW AND THE TILES GETS STRENGTHENED TO WITHSTAND INTERNAL TRUCKING IN A FACTORY.

MAJOR USE:-

POWER PALNT / TEXTILE / WAREHOUSE / GODOWNS

FOAM CONCRETE (CELLULAR LIGHT WEIGHT CONCRETE) LIGHT WITH BRICK

Foam concrete work and suggestions and recommendation for the water proofing work to be carried out over it. We are pleased to furnish the details of firm concrete and water proofing treatment as under:-

INTRODUCTION:

Aerated or foamed concrete constitutes an important group in the family of light weight concrete and insulation by incorporating midlands of uniformly distribute non connecting air cells. Foamed concrete has been used extensively in the construction of building where insulation is required.

APPLICATION AND USES

- (1) As heat insulation materials for roofs where insulation is needed.
- (2) To give lightweight and sounded deadening construction.
- (3) Can easily be furnished with plaster to provide a hard surface to receive waterproofing treatment.

COMPARATIVE ADVANTAGES:

There are several insulation materials in the market, but it is difficult to beat foam, concrete in its versatility and advantages of easy application and economy of cost.

With raw materials like cement and sand, which are available freely, and with a foaming agent, which is formulated out of indigenous materials, the manufacture of foam concrete does not present any problem.

RECOMMENDED SPECIFICATIONS:

- (1) A coat of hot applied bitumen @ 1.2 kg.per.sq.mtr. Over the slab, where the foam concrete is to be laid as a vapor barrier.
- (2) 100mm thick average foam concrete (Density – 300 to 325 kg/m) shall be laid over the treated surface.
- (3) Cement plaster (1:5) of average thickness 20mm. Over the foam concrete to make the surface harder to receive the water proofing treatment.
- (4) Water proofing is needed to preserve the foam concrete to leak proof the building and to maintain insulating value. (Specification enclosed)



LIST OF CONSTRUCTION COMPANIES

LIST OF CONSULTANT COMPANIES

LIST OF CLIENT

AND MANY MORE

LIST OF PROJECTS IN HAND

1. KSK Mahanadi
2. GVK Govinwal
3. Maserbaer Anapara
4. Pipava Power Project
5. Wipro

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