Acid and Heat Resistant Products

1. ACID RESISTANCE BRICKS (CONFIRMING to IS:4860)

Properties	Unit	Class-I Bricks	Class-II Bricks	Application
Water Absorption	% Max	2	4	Chemical Process Floor, Chimneys, Tanks etc.
Flexural Strenght	Kg/cm^2	100	70	
Compressive Strength	Kg/cm^2	+700	+500	
Resistance to Acid	Loss in weight % Max	1.5	4.0	

2. ACID RESISTANCE TILES (CONFIRMING to IS:4457)

Properties	Unit	Class-I Bricks	Application
Water Absorption	% Max	2	Various Application specially in Chemical, Petrochemical and Fertilizer Industries.
Flexural Strenght	Kg/cm^2	200	
Compressive Strength	Kg/cm^2	+700	
Resistance to Acid	Loss in weight % Max	1.5	

3. SODIUM SILICATE MORTAR (CONFIRMING to IS:4832)

Properties	Unit	Class-I Bricks	Application
Working Time	Minutes	20	For laying of Fire Resistant Bricks
Flexural Strength	Kg/cm^2	35	
Compressive Strength	Kg/cm^2	100	
Bond Strength	Kg/cm^2	5	
Absorption of Toulene	% Max	18	

POTASSIUM SILICATE MORTAR (CONFIRMING to IS:4832)

Properties	Unit	Class-I Bricks	Application
Working Time	Minutes	20	For laying of Acid Resistant Bricks
Flexural Strength	Kg/cm^2	40	
Compressive Strength	Kg/cm^2	150	
Bond Strength	Kg/cm^2	5	
Absorption of Toulene	% Max	18	

4. EPOXY

- It is a Phenolic resin based, with silica filler, cold curing acid resistance cement. The advantage of this product is that it has good resistance towards acid and solvents.
- EPOXY carries ISI marking and conforms to ASTM C-395-80 and IS 4832 Part II.

USES :

- EPOXY is used for setting acid proof tiles / bricks. Various areas like floors, drains, neutralization pits, storage tanks, reaction vessels, filter notches, DM water plants are covered with brick lining using EPOXY Mortar.
- EPOXY Mortar is extensively used in industries like Dyestuff, Rayon, Metal Finishing, Fertilizers, Petrochemicals, etc.
- EPOXY is used for bedding and jointing of acid proof tiles / bricks when exposed to severe corrosive condition as prevailing in process tank / reaction vessels etc. for spillage conditions, EPOXY is used as pointing cement along with silicate mortar as the bedding cement.

5. BITUMASTIC

- Bitumastic consist of selected acid resistant siliceous fillers and bitumen, Blended homogeneously to form a butter like consistent mastic.

USES :

- Bitumasticis employed as an exposed lining for corrosion resistant floors where traffic is light or non-existent. It is employed as an impermeable chemical resistant membrane on floors, channels, manholes, sumps etc., which are constructed out of concrete and brick masonry. Bitumastic is used on vertical surface upto 600mm height.
- This is used in different industries like Dyes, Pigments, Chemicals, Automobiles, Petroleum and Petrochemicals, Fertilizers, Sulphuric, Phosphoric Acid plants etc.

6. PRIMER

- Primer is bitumen based corrosion resistant paint. It is a single component air curing paint. It is easily applied by brush; roller or spray and it meet the requirements of IS 9862 specification.

USES :

- Primer is used as primer over concrete surface for the application of mastic as membrane for the chemical resistant acid proof Tile / Brick Lining work on treatment with Primer, a good bond is developed between the concrete surface and the mastic.
- It is also used as anti-corrosive paint on steel structures for rust prevention. It is used for coating and protecting any surface, whether wood, metal or concrete in such constructions as bridges, tanks, girders, pipes, railways, docks, ship's interiors and exteriors such as holds, bunders, peaks, decks, funnels, top sides, iron gearing and fittings etc. Further uses are for painting gas works, power stations and smoke stacks.
- Primer form an elastic film which expands / contracts with the metal to which it adheres and is therefore not subjected to "Flaking" making in an ideal coating for exposed conditions.