Acid Resistant Tiles & Bricks

We offers Bricks & Tiles that is hard not to notice when used in any housing or luxurious atmosphere. Cut sizes can be varied alternatively depending on the requirement.

**Acid Resistant Tiles:**

![Acid Resistant Tiles Image]

It is generally use on chemicals processing floors, where it is bedded & jointed with acid proof chemicals.

**Acid Resistant Tiles Size:**

1. 100x200x8mm, 10mm, 12mm, 25mm (as per IS4457)
2. 300x300x8mm, 10mm, 12mm, 16mm (as per IS4457)
3. 200x200x10mm, 12mm, 20mm (as per IS4457)
4. 230x115x12mm, 20mm, 25mm (as per IS4457)

**Acid Proof Bricks:**

![Acid Proof Bricks Image]

**Acid Proof Bricks Size:**

1. 230x115x38mm (as per IS4860)
2. 230x115x75mm (as per IS4457)
SPECIFICATION:
Manufactured as per the Indian Standard Specification i.e. I.S. 4860-1968.

PROPERTIES:

<table>
<thead>
<tr>
<th>Tests</th>
<th>As Per Indian Standard Specification I.S. 4860-1968</th>
<th>Our Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Class</td>
<td>2nd Class</td>
</tr>
<tr>
<td>1. Water absorption %</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>2. Flexural Strength kg/cm</td>
<td>100</td>
<td>70</td>
</tr>
<tr>
<td>3. Compression Strength kg/cm</td>
<td>700</td>
<td>500</td>
</tr>
<tr>
<td>4. Acid Loss %</td>
<td>1.5</td>
<td>4%</td>
</tr>
<tr>
<td>5. Resistance to wear mm</td>
<td>2.0</td>
<td>-</td>
</tr>
<tr>
<td>6. Warpage in mm</td>
<td>2.5</td>
<td>3.5</td>
</tr>
<tr>
<td>7. Tolerances :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Length ± in mm</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>(b) Breadth ± in mm</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>(c) Thickness ± in mm</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SIZES AND SHAPES:

<table>
<thead>
<tr>
<th>Products</th>
<th>Specification</th>
<th>Dimensions in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>a</td>
</tr>
</tbody>
</table>
CAPACITY

1000 MT per month.

QUALITY

1st class for Acid Storage Tanks, pickling tanks and chimney construction etc. IInd class for
Floors construction Battery rooms etc.

LABORATORY

Having testing facilities to test right from raw materials to finished product as per Indian
Standard specification.

QUALITY APPROVAL

Besides regular testing for every lot in our laboratory, the products are being tested and approved
by Central Glass Ceramic Research Institute, Ahmedabad and Shri Ram Test House, New Delhi
every twice in a year.

SPECIALS

Arch Bricks, Tapper Bricks, Sleeves Tongue & Groove Bricks. Also other shapes required by the
customers.

USERS

2. Fertilizer Plants
3. Thermal power plants for chimney construction.
4. Petrochemicals and refineries
5. Pharmaceuticals etc.
TECHNICAL DATA:

We manufacture and supply wide range of high quality graded Acid Proof Cements, Resins and its allied products as below

<table>
<thead>
<tr>
<th>Properties</th>
<th>Furane</th>
<th>Phenolic</th>
<th>K-Silicate</th>
<th>Cnsl</th>
<th>Sulphur</th>
<th>Epoxy</th>
<th>Polyester</th>
<th>Bricks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Black</td>
<td>Black</td>
<td>Off White</td>
<td>Black</td>
<td>Black</td>
<td>Off White</td>
<td>Off White</td>
<td>Red/White</td>
</tr>
<tr>
<td>Ratio ( Solution Powder)</td>
<td>1:3</td>
<td>1:3</td>
<td>1:3</td>
<td>1:3</td>
<td>Hotmelt</td>
<td>1:5</td>
<td>1:5</td>
<td>-</td>
</tr>
<tr>
<td>Compressive Strength (kg/cm²)</td>
<td>350</td>
<td>350</td>
<td>150</td>
<td>280</td>
<td>250</td>
<td>500</td>
<td>500</td>
<td>700</td>
</tr>
<tr>
<td>Flexural Strength (kg/cm²)</td>
<td>75</td>
<td>75</td>
<td>40</td>
<td>75</td>
<td>70</td>
<td>150</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>Bond Strength (kg/cm²)</td>
<td>10</td>
<td>10</td>
<td>05</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>12</td>
<td>-</td>
</tr>
<tr>
<td>Water Absorption (max %)</td>
<td>01</td>
<td>01</td>
<td>18 *</td>
<td>01</td>
<td>01</td>
<td>01</td>
<td>01</td>
<td>02</td>
</tr>
<tr>
<td>Temperature Resistant (max c)</td>
<td>170</td>
<td>170</td>
<td>900</td>
<td>190</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>900</td>
</tr>
<tr>
<td>Self Life @ 27 °C</td>
<td>60 days</td>
<td>45 days</td>
<td>365 days</td>
<td>90 days</td>
<td>Life Time</td>
<td>90 days</td>
<td>90 days</td>
<td>Life Time</td>
</tr>
</tbody>
</table>

* Absorption of Toluence.

** @ 27 °C in seal pack Drums and Bags under covered shed.

Properties

**Primer:**

A hot melt type acid-proof cement resist oxidizing and non-oxidizing chemicals up to certain limits. Best jointing cement for acid proof Brick/ Tile lining work in battery charging rooms & electro plating plants. It resist Temperature upto 90 °C.

**Mastic**

A Hot melt type corrosion resistant cement in slab shape Resists dilute acids, alkalies, salts etc. Best for heavy duty industrial flooring and Brick/ Tile inter - liner material. Effective Laying system for floors/ elevated floors of chemical storage tank-pads in refinery, gase and oil base projects.
**Bricks and 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.

The standard sizes : 10mm, 12mm, 15mm, 20mm, 25mm, 38mm, & 75mm thick Acid Proof Tiles and Bricks are always available with us.

**K-Silicate**

A pure, buff white powder and crystal clear solution of k-Silicate Mortar is generally used as a bedding mortar in all types of 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 an unique nature of Acid and Heat Resistance. It may resist temperature upto 900 °C

**Phenolic:**

A very limited used 2 component Acid Proof PHENOLIC Mortar has very specific usages. Excellent resistant against Sulphuric (H2SO4) Acid upto 93% has made this material most identical for frtilizer, 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:**

Epoxy is a most widely applicable and versatile material in Corrosion Technology

EPOXY used as coating, Screeding, bedding & Jointing materila 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 perfomance upto many years.

Colourful & Jont less Screeding or Coating with EPOXIES is highly recommended in all above plants which provides cost free, very high strength and excellent aesthetic view.

Epoxies 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.
Epoxies and special grouting with high pressure shall fill up any deep cracks into all above RCC base structures and provide the additional strength to RCC structures.

**Furane:**

A prime 2 Component (Resin & powder) Acid / Alkali / Solvent resistant Furnae: resin-Mortar is used 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 is always recommended in all above plants due to its high strength, excellent bonding & Acid/ Alkali / Solvent resistant Nature.

**Sulphur:**

A hot melt type acid-proof cement resist oxidizing and non-Oxidizing chemicals upto certain limits. Best Jointing cement for acid proof Brick/Tile lining work in battery charging rooms & electro plating plants. It resist Temperature upto 90°C.