



## VIJAYKUMAR REFRACTORIES & CHEMICALS PVT. LTD.

MANUFACTURERS  
& APPLICATIONS

REGD.OFFICE  
PHONE  
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ACID / ALKALI PROOF TILING, EPOXY/PU SCREEDING, SELF LEVELLING,  
WALL COATINGS & ALLIED JOBS

: D/7, Nand-Jyot Industrial Estate, Andheri-Kurla Road, Sakinaka, Safed Pool, Mumbai - 400 072.  
: 28512778 / 2851 2771 • CIN No.: U26940MH1973PTC016219  
: vijaykumar\_refractories@hotmail.com  
: www.vijaykumaracidproof.com • http://www.indiamart.com/vijaykumarrefractories/

### **VIKOPROOF- PF PHENOLIC RESIN MORTAR**

**VIKOPROOF-PF Cement mortar** is a synthetic resin cement from our range for special products for acidproof construction.

#### **DESCRIPTION:**

VIKOPROOF-PF is a two component system used for laying tiles and filling joints between Acid resistant tiles.

The two part system consists of a medium to low viscosity syrup and powder filler. The powder is an inert siliceous filler of low acid solubility value blended with catalysts which are acidic in nature. This catalyst acts as a promoter for setting and hardening of the cement mortar.

The resin is a condensation product of phenol formaldehyde.

There are two types of fillers available. One is silica based filler.

However where Hydrofluoric acid (HF) or Hydrofluorosilicic acid and other fluorine chemicals are present, the siliceous filler is substituted with carbon fillers.

VIKOPROOF-PF Phenolic Resin cement has excellent resistance to Sulphuric acid, Hydrochloric acid and other mineral acids. It is highly recommended for resistance of Sulphuric acid upto 85% concentration at 40°C.

It is not resistant to alkalis and many solvents. It is also not recommended for use for resistance against Nitric acid, Chromic acid.

The powder, if kept under ideal storing conditions and the liquid binder has a limited shelf of maximum 60days from the date of manufacture.

#### **AREAS OF USE:**

VIKOPROOF-PF Phenolic resin cement has extensive use and is used to join acid resistant tiles/bricks for Chemical process Industries, Steel Mills, Acid Tank farm areas etc.

**MAXIMUM OPERATING TEMPERATURE:** It is resistant upto a temperature of 100°C and upto 120°C for shorter periods.



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## PHYSICAL PROPERTIES:

WORKING TIME Minimum @ 27+/-2°C	20minutes
SETTING TIME Minimum @ 27+/-2°C	240minutes
FLEXURAL STRENGTH @7 Days min(Kg/cm <sup>2</sup> )	75
COMPRESSIVE STRENGTH @7 Days min(Kg/cm <sup>2</sup> )	350

## CHEMICAL RESISTANCE:

CHEMICALS	R/L.R/N.R	CHEMICALS	R/L.R/N.R
Acetic Acid	N.R	Chromic Acid	N.R
Lactic Acid	R	Nitric Acid	N.R
Sulphuric Acid (Dil)	R	Sulphuric Acid (Conc)	R
Hydrochloric Acid(Dil)	R	Hydrochloric Acid (Conc)	R
Caustic Lye	N.R	Sodium Carbonate	N.R
Calcium Hydroxide	N.R	Alcohols	N.R
Ammonia	R	Mineral Oils	R
Ketones	N.R	Vegetable Oils	R
Wet Gases(Reducing)	N.R	Wet Gases(Oxidising)	N.R
Salt Solutions	N.R	Phosphoric Acid	L.R

## MIXING RATIO:

VIKOPROOF-PF Powder	300 p.b.w
VIKOPROOF-PF Liquid Resin Binder	100 p.b.w

## FOR CARBON FILLED SYSTEM:

VIKOPROOF-PF(C) Powder	200 or 100 p.b.w
VIKOPROOF-PF Liquid Resin Binder	100 p.b.w

## INSTRUCTIONS FOR USE:

- 1) The cement should be mixed in a clean bowl in the above mentioned ratios. Care should be taken to ensure that the powder is added in the resin slowly with continuously mixing the same while adding.
- 2) The mixed mortar should be kept dry at the time of setting.
- 3) The resultant mortar paste is evenly spread on the back and side of the tile and pressed down on the prepared surface leaving joints of sufficient thickness for joint filling. The excess material coming out of the joints should be trimmed off with a trowel while it is still unset.
- 4) Where the base mortar is different, the joints should be raked clean to a depth of about 3-4mm wide & 10-12mm within 24hours of lining to provide for joint filling mortar.



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### **SHELF LIFE:**

<b>POWDER( If stored under ideal dry conditions)</b>	12 months from the date of manufacture
<b>Liquid Binder</b>	2 months from the date of manufacture

### **PACKING:**

<b>POWDER</b>	50 kg HDPE Bag with LDPE inner liner
<b>Liquid Binder</b>	25/35/200 kg HDPE or MS Drum

For Further Details Contact:

### **REGD OFFICE:**

**D/7 Nand Jyot Industrial Estate,  
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Note: All recommendations for use of our products, whether given by us in writing, verbally or to be implemented from the results of tests carried out by us are based on the current state of our knowledge. Although the information given in the sheet is accurate to the best of our knowledge, no liability can be accepted in respect of such information.