



VIJAYKUMAR REFRACTORIES & CHEMICALS PVT LTD.

MANUFACTURERS
& APPLICATORS

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

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VIKOPROOF-EP EPOXY RESIN BASED CEMENT

VIKOPROOF-EP is an Epoxy Resin based cement is supplied as a 3 pack system. The first component is a solvent free low viscosity Resin. The second component is chemical hardener and the nature of material varies according to chemical spillage that the resultant resin hardener mix has to combat. The third component is a blend of finely divided and dry quartz inert filler,

The cement is prepared by mixing these ingredients in the following ratio;

VIKOPROOF-EPR Resin : 100 p.b.w.(parts by weight)
VIKOPROOF-EPH Hardener: 60 p.b.w.
VIKOPROOF-EP Filler ester: 480 p.b.w.

The components are mixed in the abovementioned order. The resultant mortar has a very low pot life of about 20 to 25 minutes and hence should be used quickly to lay or joint the acid proof tiles.

In Special cases, where pigmentation needs to be done to match the colour of the A.R.Tiles, the system is supplied with a different hardener as under

VIKOPROOF-EPR Resin : 100 p.b.w.(parts by weight)
VIKOPROOF-EPH Hardener: 12p.b.w.
VIKOPROOF-EP Filler ester: 336 p.b.w.
PIGMENT PASTE: 5 p.b.w

VIKOPROOF-H vinylster Resin cement is used in large quantities for fixing of A.R.Tiles/Bricks or for filling of joints between A.R.Tiles or A.R.Bricks.

The mortar has outstanding resistance to Sodium Hydroxide (Caustic-NaOH), Dil hydrochloric acid, Sulphuric acid upto 60% conc and several other oxidizing acids and chemicals

Epoxy Mortar has very poor or limited resistance to Nitric acid and Chromic Acid. It has very poor resistance to Chlor Alkali or Bleach Solutions, Chlorine dioxide and a few Halogen based chemicals

MAXIMUM OPERATING TEMPERATURE: It is resistant upto a temperature of 85°C and upto 100°C for shorter periods.

PHYSICAL PROPERTIES:

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

CHEMICAL RESISTANCE:

CHEMICALS	R/L.R/N.R	CHEMICALS	R/L.R/N.R
Acetic Acid (Glacial)	R	Chromic Acid	N.R
Acetic Acid (10%)	N.R	Ethanol (50%)	R
Lactic Acid	N.R	Nitric Acid (10%)	L.R
Sulphuric Acid (upto 60%)	R	Sulphuric Acid (Conc)	N.R
Hydrochloric Acid(Dil) 10%	R	Hydrochloric Acid (Conc)	L.R
Caustic Lye (Conc)	R	Sodium Carbonate	R
Calcium Hydroxide	R	Alcohols	R
Ammonia	R	Mineral Oils	R
Ketones	R	Vegetable Oils	R
Wet Gases(Reducing)	R	Wet Gases(Oxidising)	N
Salt Solutions	R	Phosphoric Acid (45%)	R
Salt Solution	R	Molasses	R

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) An exotherm is generated during the setting reaction and care should be taken to ensure that the quantity taken for usage is limited and as may be required.
- 3) The mixed mortar should be kept dry at the time of setting.
- 4) 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.
- 5) 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.

SHELF LIFE:

POWDER(If stored under ideal dry conditions)	18 months from the date of manufacture
Liquid Resin and Hardener	18 months from the date of manufacture

PACKING:

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

For Further Details Contact:

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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.