



VIKOPROOF - PRODUCT FOR SURFACE TECHNOLOGY



VIKOPROOF - FUR FURAN RESIN MORTAR

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

VIKOPROOF - FUR CONFORMS TO IS 4832 PART II

DESCRIPTION :

VIKOPROOF-FUR 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 catalyst 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 furfuryl alcohol.

VIKOPROOF-FUR Furan Resin cement has advantages over other cements as it is resistant to alkalis and many solvents.

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

The powder (if kept under ideal storing conditions) and the liquid binder has a very long shelf life of almost 18 months from the date of manufacture.

AREAS OF USE:

VIKOPROOF-FUR Furan resin cement has extensive use and is used to join acid resistant tiles/bricks for Chemical process Industries, Steel Mills, Petrochemical Plants, Oil Refineries, Rayon Plants, Pulp and Paper Mills, Pigment Manufactures, etc.

MAXIMUM OPERATING TEMPERATURE : It is resistant upto a temperature of 150* C and upto 180*C for shorter periods.

PHYSICAL PROPERTIES :

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

MIXING RATIO:

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

FOR CARBON FILLED SYSTEM:

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|-----------------------------------|-------------------|
| VIKOPROOF-FUR (C) Powder | 200 Or 100 p.b.w. |
| VIKOPROOF-FUR 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) An exotherm is generated during the setting reaction and care should be taken to ensure that 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 24 hours of lining to provide for joints filling mortar.

SHELF LIFE:

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| POWDER (If Store Under Ideal Dry Condition) | 18 months from the date of manufacture |
| LIQUID BINDER | 18 months from the date of manufacture |

PACKING

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|---------------|--------------------------------------|
| POWDER | 50 kg HDPE Bag with LDPE inner liner |
| Liquid Binder | 25/30/200 kg HDPE or MS Drum |

For Further Details Contact:

REGD OFFICE:

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Note: All recommendation for use of our product, whether given by us in writing, verbally or to be implemented from the result of 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.