VIJAYKUMAR REFRACTORIES & CHEMICALS PVT LTD.
MANUFACTURERS & APPLICATORS
ACID/ALKALI PROOF TILING, EPOXY/PU SCREEDING, SELF LEVELLING, WALL COATINGS & ALLIED JOBS
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VIKOSEAL-EP EPOXY PRIMER
TECHNICAL DATA SHEET

Description:

VIKOSEAL-AR Epoxy Primer is a solvent free low viscosity epoxy system, which permits the use of high filler loadings. The cured resin exhibits outstanding mechanical properties and good chemical resistance.

Applications

Protective coatings: Standard solvent-free epoxy coatings based on this resin system are used for corrosion protection of metal and concrete surfaces. They provide excellent adhesion to clean/prepared steel and concrete, as well as good intercoat adhesion.

Industrial heavy duty floorings: Flooring compositions based on the above resin system can withstand severe mechanical stresses as well as thermal stresses. Good chemical resistance and cheap maintenance are additional features.

Foundation Grouting: The excellent mechanical strength of the above system allows a formulator to produce grouting compositions for the installation of heavy machinery.

Sealing of cracks: Sealing of cracks on the surface of concrete can be done with the above system, by adopting a proper technique like pressure grouting.

Bonding of old concrete to new concrete: For bonding of old concrete to new concrete / cement plaster / granite etc. An intermediate layer of the above system can be used.

Features:

The system consist of

A) Epoxy Resin
B) Hardener

Epoxy resin is a low viscosity, Bisphenol-A based crystallization free resin modified with a reactive diluent with attractive processing properties.

Epoxy Hardener is a low viscosity phenalkamine are range of epoxy curing agents (synthesized from Cardanol).
The fast and low temperature (< 5 deg) cure properties of phenalkamines are of advantage to coating formulationsfor the formulation of flexible coatings, trowelling and grouting compounds with excellent adhesion.

Technical Data

Property	**Units**	Epoxy Resin	**Epoxy Hardener**
Description	-	Clear Viscous Liquid	Yellow Brown Viscous Liquid
Viscosity at 25°C	m Pas	450-650	3200-3800
Epoxy Equivalent	g/ equiv	181-192	-
Epoxy Content	eq/kg	5.2-5.5	-
Amine Value	mg KOH/g	-	350-400
Color	Gardner	Max 1	Max 9

The combined Primer system will have the following properties

Mixing Ratio of Resin with Hardener	**100: 50 (2:1)**
Coating Thickness	**80-100 microns**
Mix Viscosity @ 25*C	**1000-1300 m Pas**
Potlife @ 25*C	**60 minutes**
Touch Dry Time	**4-6 hours**
Bond Strength(Kg/cm2) Min	**75**
Mix Batch Colour	**Brownish yellow Colour**
Mixing of Resin with Hardener	**Preferably by mechanical stirrer, but manual mixing accepted and will not affect the properties of the system**

Crack Grouting: We recommend this system for sealing and grouting of cracks, which are more than 3 mm wide. Although not mentioned in the formulation bellow VIKOPROOF-EP Epoxy Filler is recommended (200 pbw. to 350 pbw.) to fill wider cracks.

Epoxy Resin	100 parts by weight
Epoxy Hardner	50 parts by weight
Mix Viscosity at 25°C	1000 - 1300 m Pas (without Quarts Sand Mix. 10)
Pot life at 25°C	120 minute
Touch dry time at 25°C	4-6 hr

Properties after 7 days of curing at 25°C

Description	**Units**	
Compressive Strength	kg / cm^2	800-1200
Tensile Strength		350-400
Modulus of Elasticity in Tension		2000 - 2200
Flexural Strength		600 – 800
Bond Strength(Al to Al)		600 – 800

STORAGE AND HANDLING

Normally resins have a shelf life of at least two years and curing agents have a shelf life of one year, if stored in its original container away from humidity and excessive heat. **Epoxy resin** is relatively safe to use. It has a very low dermatic potential. Special care has been taken to keep the epichlorohydrin content of resin very low. Nevertheless, as with most other synthetic resins of this kind, care must be taken to avoid contact with skin as far as possible. If contact does occur,

then the resin/curing agent should be washed off immediately with soap and warm water. If resin/curing agent wastes are incinerated, the decomposition products are carbon monoxide and carbon dioxide.

HYGIENE

As far as possible direct contact of resin and hardener with the skin should be avoided as they might cause irritation on sensitive skins. It is advisable to wash off the resin and the hardener immediately if it does come in contact with skin. Special barrier creams and cleansing creams are available commercially as additionally safeguards.

PACKING:

RESIN: 25 KG MS/HDPE DRUM
HARDNER: 25 KG MS/HDPE DRUM
Any other standard packing can be made available on request.

For Further Details Contact:

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