

## Acrylic Polymer Modifier for Cementitious Systems

### DESCRIPTION

**TIKI POLYMOD AR** is acrylic polymer based polymer modifier for use with cementitious compositions as waterproofing slurry coating, water resistant bonding agent, protective coating and repair mortar.

### USES

As polymer modifier in conjunction with cementitious composition, **TIKI POLYMOD AR** is used for:

- Waterproofing basement and retaining wall, lift pit, toilet and bathroom, wet area, water tank, swimming pool, terrace, and other areas demanding water tight treatment.
- Bonding new cementitious surfaces with old cementitious surfaces in repair works.
- Preparations of polymer modified cementitious protective coating.
- Preparations of polymer modified cementitious render coat, and repair mortars.

### ADVANTAGES

Cementitious compositions made with **TIKI POLYMOD AR** is characterised by:

- Increased resistance to abrasion, water ingress and cracking.
- Enhanced adhesion with substrates.
- Increased water tightness.
- Good flexibility and crack bridging ability.
- Breathable - allows entrapped moisture to escape.
- High resistance to corrosive atmosphere.
- Improved workability.
- Lower water-cement ratio.

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

The surface to be treated must be clean and sound free of loose dust, laitance, foreign particles, curing compound, mould release agent, etc., that may compromise the adhesion of treatment adversely.

Spalled concrete or honeycombed surface should be repaired using polymer modified cementitious repair mortar modified with **TIKI POLYMOD AR**.

Cracks should cut to V-shape and filled using cementitious mortar modified with **TIKI POLYMOD AR**.

Never use **TIKI POLYMOD AR** modified waterproofing slurry directly on unsound surface, brick coba or lime mortar.

### PROPERTIES of TIKI POLYMOD AR

Properties	Values
Appearance	Milky white pourable emulsion
Emulsifying System	Synthetic anionic and non-ionic
Total Solids (%)	34.0 ± 1.0
pH at 25°C	9.5 ± 0.5
Brookfield Viscosity RVT (CPS) SP.3, 20 RPM at 25°C	20 to 100
Specific Gravity	1.015 ± 0.005
Compatibility	Compatible with all grades of cement

### POLYMER MODIFIED CEMENTITIOUS WATERPROOFING MIX PREPARATION

2 parts of Cement by weight is gradually added to 1 part of **TIKI POLYMOD AR** by weight in a separate container under continuous stirring until homogeneous lump free creamy consistency mix is obtained.

Allow the prepared mix to stand for 5 minutes before using. The prepared mix should be used within 30 minutes after mixing.

### APPLICATION

Prior to application of waterproofing slurry, damp the surface to be coated by sprinkling water. Apply slurry uniformly by brush in two coats, the second coat applied perpendicularly on dry first coat within 24 hours of application of first coat.

If application of protective render coat is required, then quartz sand is sprinkled on the wet second coat for forming mechanical key for subsequent protection coat.

**COVERAGE**

Waterproofing slurry coat consisting of mixture of 1 Kg. of **TIKI POLYMOD AR** with 2 Kg. of cement covers 1.4 to 1.6 m<sup>2</sup> area @ 1mm thickness in 2 coats.

**PROPERTIES of WATERPROOFING SLURRY**

Properties*	Values
Mix Ratio Cement : <b>TIKI POLYMOD AR</b>	2:1 by Weight
Mix Density	1800 to 2000 Kg./m <sup>3</sup>
Pot Life	40 minutes @ 30°C 20 minutes @ 40°C
Re-Coatability	6 to 24 hours

\*Properties are indicative, tested under ideal laboratory condition. Properties Varies depending on site conditions and mix constituents.

**PROTECTIVE COAT TO WATERPROOFING COATING – RENDER COAT**

Protective render coat of minimum 5mm is recommended when the applied waterproofing coating is subjected to foot traffic or U.V exposure or water submersion, the protective render coat applied by using flat trowel.

Material requirement/m<sup>2</sup> for 5mm thick protective render coat:

Cement	3 Kg.
Quartz Sand (Zone III)	5 Kg.
<b>TIKI POLYMOD AR</b>	2 Kg.
Water	1 Litre

**BOND COAT**

**TIKI POLYMOD AR** with minimum solid content of 27% by weight can be suitably used as bonding slurry coat to promote the adhesion of cementitious treatments with cementitious substrate.

**TIKI POLYMOD AR** should be mixed with cement in 1:1 ratio by weight and applied @ 4 to 6 m<sup>2</sup>/ Kg., as bond coat, to produce minimum pull-off bond strength of >1mPa.

**POLYMER MODIFIED CEMENTITIOUS MORTAR**

Polymer modified cementitious mortar for filling cracks, constructing coving (vata), repairing spalled concrete, honeycombs, etc., shall be of 1:5:15 proportion (**TIKI POLYMOD AR** : Cement : Zone II Quartz Sand) by weight, usually applied by trowel.

**Material requirement/m<sup>2</sup> for 20mm repair mortar:**

Cement	10 Kg.
Quartz Sand (Zone II)	30 Kg.
<b>TIKI POLYMOD AR</b>	2 Kg.
Water	1 to 2 Litre

**CURING**

The final layer of applied polymer modified cementitious systems shall be allowed to initially cure for at least 3 days by spraying water and thereafter shall be allowed to dry out for air curing.

**SUPPLY**

**TIKI POLYMOD AR** is supplied in 5Kg., 20Kg. and 210Kg., pack sizes.

**STORAGE**

**TIKI POLYMOD AR** must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight. The shelf life is 12 months in sealed unopened container.

**SAFETY PRECAUTIONS**

As with all chemical products, care should be taken during use and storage of **TIKI POLYMOD AR**. Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application. For further detail, refer to Material Safety Data Sheet

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