

# TIKI AQUASEAL AR



## Acrylic-PU Based Waterproofing Protective Coating

### DESCRIPTION

**TIKI AQUASEAL AR** is single component ready to use white colored Acrylic-Polyurethane Resin dispersion-based U.V resistant elastomeric membrane coating for protection of all R.C.C structures.

### ADVANTAGES

- UV and weather resistant.
- Good resistant to carbonation and chloride attack.
- Elastomeric - good crack bridging ability.
- Good resistance to water, salts, sea water, mild acids and alkalis and saline atmosphere.
- Solvent free - V.O.C compliant.
- Good resistance against algae and fungi.
- Dirt pick-up resistant and good cleanability.
- Breathable-allows for escape of entrapped moisture/ water vapour through the treatment.
- Good adhesion with the primed surface.

### PROPERTIES

| PROPERTIES           | VALUE                       |
|----------------------|-----------------------------|
| Type                 | Acrylic-PU Dispersion       |
| Colour**             | White                       |
| Drying Time @ 30°C   |                             |
| Touch Dry            | 1 to 2 Hours                |
| Re-Coat ability      | 4 to 6 Hours                |
| Full Cure            | 7 days                      |
| Solids               | 60 ± 5 %                    |
| Tensile Strength     | >3 MPa                      |
| Elongation at Break  | >100 %                      |
| Coverage in 2 Coats* | 3 to 4 m <sup>2</sup> / Kg. |

\*Coverage / Consumption is approximate and it depends upon the site conditions and surface porosity at the time of application.

\*\*For other colours, Universal stainers can be used after confirming the compatibility with the coating.

### USES

**TIKI AQUASEAL AR** is suitable for application on:

- Roof slabs, terraces, balconies, parapet walls etc.
- Old and new surfaces, vertical as well as horizontal.
- Structures with complex geometry like domes, arches, silos, chimneys, corrugated sheets etc.
- Structures exposed to marine / saline atmosphere.

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

The surfaces must be sound, clean, dry, and free from cracks, honeycombs and undulations, laitance, oil, grease, traces of paints and loose particles.

New concrete should be 28 days old with moisture content less than 4%. All existing cracks above 0.2mm and expansion joints shall be treated with **TIKISEAL PU25 / TIKISEAL PU40** polyurethane sealant.

#### REINFORCING CORNERS & JUNCTIONS

All corners, inside and outside including junctions, should be reinforced using 0.63 mm thick and 120mm wide thermoplastic elastomer coated alkali resistant waterproofing tape **TIKIFLEX 1001**, the tape sandwiched between two coats of **TIKI AQUASEAL AR**.

The tape should be embedded in first wet coat while maintaining overlap of 5cm. Second coat is applied perpendicular to dried first coat fully covering the reinforcing tape

#### SURFACE PRIMING

Apply **TIKI AQUASEAL AR** diluted with water in 2:1 ratio as primer @6 to 8 m<sup>2</sup>/Kg., (coverage may vary depending upon the nature and texture of the substrate), on well-prepared substrate covering the entire area uniformly. Allow the primer to dry.

On very absorbent or porous surface, it is necessary to apply second coat of primer.

#### APPLICATION

**TIKI AQUASEAL AR** is applied in two coats by brush or roller or airless spray @ 6 to 8 m<sup>2</sup>/Kg. /Coat.

While first coat is still wet, depending upon the project requirement, it is recommended to embed reinforcing layer of 40 gsm non-woven polyester scrim in first wet coat while maintaining overlap of 5cm.

Second coat is applied perpendicular to dried first coat fully covering the reinforcing layer.

**TIKI AQUASEAL AR** coating can bridge cracks up to 0.2mm width. The crack bridging ability can be enhanced with additional coats of the system.

#### CLEANING

Immediately after application of **TIKI AQUASEAL AR**, use water for cleaning application tools.

#### SUPPLY

**TIKI AQUASEAL AR** is supplied in 25 Kg., and 50 Kg., pack size.

#### STORAGE

**TIKI AQUASEAL AR** must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight. The shelf life is 6 months in sealed container.

#### SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage. **TIKI AQUASEAL AR** is non-toxic and non-flammable. Avoid contact with skin, eyes, mouth and food. For further detail, refer to Material Safety Data Sheet.

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