

# TIKI AQUASEAL ARR

## 1K Heavy Duty Reinforced Acrylic Waterproof Coating for Terrace Areas

### DESCRIPTION

**TIKI AQUASEAL ARR** is a single component U.V resistant, solar reflective, heavy duty reinforced terrace waterproof coating system based on highly elastic and resilient acrylic polymers specially formulated for waterproofing of all types of building terraces without breaking / removing the existing treatments such as brickbat coba, concrete screed, acrylic coating, asphalt coating / roofing, etc.

The white colored coating offers excellent U.V resistance & Solar reflectivity properties. The coating effectively radiates solar heat back to the atmosphere reducing the surface temperature.

When applied in three coats with a reinforcing layer of polyester scrim **TIKI ARMADURA**, the coating provides enhanced and reliable waterproofing performance.

### USES

**TIKI AQUASEAL ARR** is used to waterproof:

- Building roofs and terraces, flat and sloping, old and new types.
- Roofs covered with asphalt coating/membranes, cement reinforced sheets, terrazzo tiles, etc.
- Balconies, parapet walls, facades etc.
- Existing cementitious treatments, such as brickbat coba, IPS flooring, concrete screed etc., without breaking / removing the treatment.
- Structures with complex geometry like dome, silo, arches, parabolic, chimney, corrugated sheets etc.

### ADVANTAGES

- Good elastomeric and crack bridging property - efficiently absorbs expansive and contractive movements in concrete.
- Good adhesion to primed surface ensuring high resistance to peeling and stripping.

- Suitable for application on asphaltic surfaces.
- Good resistance to water, salt solutions, sea water, mild acids, alkalis and saline atmosphere.
- Good resistance to U.V light & aggressive weather.
- Water based and cold applied requiring no mixing or heating – user friendly.
- Good abrasion resistance - allows light pedestrian foot traffic without need for additional protection.
- Breathable - allows for transmission of water vapour from interior of building through concrete and masonry surfaces.
- Imparts additional waterproofing and protection to brickbat coba and IPS flooring, when used as base coat and / or intermediate coat.

### PROPERTIES

Property	Values
Appearance	Viscous Liquid
Solid Content, % (ASTM D1644-03)	65 + 5
Color	White
Viscosity@ 25°C, (SpL.7; RPM:10), CPS	≥65000
Specific Gravity (ASTM D1475-03)	1.30 ± 0.10
Tack Free Time @ 35°C, Hours	2 to 4
Drying Time @ 25°C, Hours (ASTM D 1640-03)	10 to 12
Shore A Hardness (ASTM D2240-05)	≥50
Resistance to Temperature, °C	-30 to +100
Elongation at Break, %, (ASTM D412)	≥ 250
Tensile Strength, mPa (ASTM D412-9a)	≥2.60
U.V Resistance, 10000 Hours (ASTM G154)	No Deterioration / Color Fading
Solar Reflective Index (SRI)	114
Chemical Resistance	Good
Pull Off Test, mPa, (BS 1881-207 -92)	≥2
Water Vapor Transmission, g/m <sup>2</sup> /day (ASTM E96-95)	23

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

**TIKI AQUASEAL ARR** waterproof coating is suitable for application over cementitious substrates, wood and metal with a suitable primer.

The surfaces must have suitable slope and should be sound, clean, dry, free from cracks, honey combs and undulations, oil, grease, laitance, loose rust & particles.

New concrete should be 28 days with moisture content <4%.

Existing asphalt coating / asphalt roofing shall be repaired free of all blisters, cracks, split seams etc., and roughened enough by sanding.

All cracks on the cementitious substrate shall be opened up by cutting "V" groove and filled with polymer modified mortar modified using **DANOCRET AR**.

Provide coving of 75mm x 75mm all along the horizontal-vertical joints. Coving shall be of polymer modified mortar modified using **DANOCRET AR**.

All surface undulations, patches, shall be cleaned and repaired by filling it with polymer modified mortar modified using **DANOCRET AR**.

### SURFACE PRIMING

Dilute **TIKI AQUASEAL ARR** with potable water in 1:2 by weight and apply as primer @ 6 to 8 m<sup>2</sup>/Kg., uniformly covering the entire surface (coverage may vary depending upon the nature and texture of substrate). Allow the primed surface to dry.

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

### APPLICATION

Never apply **TIKI AQUASEAL ARR** when rain is expected.

Apply **TIKI AQUASEAL ARR** in three coats\*\* by brush / roller / airless spray @ 1.5 m<sup>2</sup> /Kg. per coat.

Each coat of the application should be allowed to dry, generally 10 to 12 hours before application of subsequent coats. Allow the applied system to air cure for 7 days before subjecting it to service or proceeding for application of subsequent layers of thermal insulating layer / protection layer. The total application in 3 coats shall form 1mm to 1.2mm d.f.t.

\*\*For best results and depending upon project requirement/specification, reinforcing layer of 40 to 50gsm polyester scrim **TIKI ARMADURA** can be embedded in between the first and second coat while maintaining overlap of 50mm, to provide additional strength to the treatment, the reinforcing layer embedded in first coat while first coat is wet and allowed to dry, followed by application of second and third coat over the previously applied dry coating. The total application in 3 coats shall form 1.2m to 1.5mm d.f.t. (including reinforcing layer).

**TIKI AQUASEAL ARR** coatings are resistant to the abrasion by light pedestrian foot traffic ONLY. For areas subjected to movement of heavy traffic, high heeled shoes etc., the applied coating should be suitably protected with screed concrete as given below.

**PROTECTION OF WATERPROOFING- For Trafficable Areas**  
Before laying protection screed, over fully cured waterproofed surface, spread separation layer of 300 GSM non-woven polyester geo-textile **DANOFELT PY I-300**, maintaining overlap of 50mm in both directions.

Over the separation layer, concrete screed of M20 shall be laid to provide a slope of 1 in 100 for storm water run-off. This screed will also provide required protection to waterproofing system.

The minimum thickness of screed at any point shall not be less than 50 mm. The screed shall have nominal reinforcement of 6mm at 300 c/c or shall be done with SFRC (steel fibre reinforced concrete).

#### **IMPORTANT PRECAUTIONS / INFORMATION**

The application of coating should be carried when substrate temperature is between 10°C to 40°C.

Application of coatings at temperatures below 10°C may result in incomplete film formation and consequent reduced elasticity and formation of cracks, particularly in case of thick coats.

Low temperatures and high atmospheric humidity will slow down curing rate, and vice versa.

All corners, transitions, junctions, construction joints, protrusions & outlets shall be coated with additional two coats of **TIKI AQUASEAL ARR**.

Never apply **TIKI AQUASEAL ARR** over expansion or moving joints.

#### **COVERAGE**

The 3 coats when applied @ 1.5m<sup>2</sup>/Kg. per coat shall form total dry film thickness of 1 to 1.2mm without reinforcing layer and 1.2m to 1.5mm d.f.t. including reinforcing layer.

#### **CLEANING**

Immediately after application of **TIKI AQUASEAL ARR**, use water for cleaning application tools. Use suitable thinner for removing dried up material from tools.

#### **SUPPLY**

**TIKI AQUASEAL ARR** is supplied in 20 Kg. Pails. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

#### **STORAGE**

**TIKI AQUASEAL ARR** must be stored above 5°C and below 30°C. Store under the shed and protect from extremes of temperature, heat, and direct sunlight.

#### **SAFETY PRECAUTIONS**

As with all chemical products, care should be taken during use and storage. **TIKI AQUASEAL ARR** 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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