TIKI AQUASEAL RMB

1K Rubber Modified Bituminous Elastomeric Waterproof Coating

DESCRIPTION

TIKI AQUASEAL RMB is cold applied bituminous elastomeric liquid waterproofing membrane coating modified with special grade of rubber.

STANDARDS

TIKI AQUASEAL RMB Conforms to ASTM D2823, ASTM D412, ASTM D471, ASTM E96 and ASTM C 836.

USES

TIKI AQUASEAL RMB is ideal for waterproofing:

- Concrete roofs, terraces, and metal deck roofs.
- Polyurethane foam slabs and spray foam insulation.
- Masonry and concrete walls and dry walls.
- Bathrooms and toilets.
- Basement, retaining wall & below ground structure.
- Bridges decks.
- Structures exposed to marine/saline atmosphere.
- Structures with complex geometry like dome, silo, arches, parabolic, chimney, corrugated sheets etc.

ADVANTAGES

- Good elastomeric and crack bridging property.
- Cures to a rubber like membrane – efficiently absorbs expansive and contractive movements in concrete decks.
- Forms seamless monolithic membrane.
- Suitable for application on asphaltic surfaces.
- Good adhesion to primed surface ensuring high resistance to peeling and stripping.
- Good resistance to water, salt solutions, sea water, mild acids, alkalis and saline atmosphere.
- Good resistance to oxidation, U.V light and ozone.
- Offers excellent durability over normal asphalt coating and most other coatings.
- Water based and cold applied requiring no mixing or heating – user friendly.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surfaces must be sound, clean, dry, and free from cracks, honeycombs and undulations, oil, grease, laitance and loose 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 substrate shall be opened up by cutting “V” groove and filled with polymer modified mortar modified using **DANOCRET SBR.**

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

SURFACE PRIMING

Dilute **TIKI AQUASEAL RMB** with potable water in 1:2 by weight and apply as primer @ 2 to 3 m^2/Kg., uniformly covering the entire surface (coverage may vary depending upon the nature and texture of substrate). Allow the primed surface to touch dry.

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

APPLICATION

TIKI AQUASEAL RMB is applied in two coats** by brush / airless spray / squeegees / standard roofing broom @ 1Kg. /m^2 per coat, while primed surface is tacky. Second coat is applied perpendicular to dried first coat. The 2 coats shall form average 1.0mm d.f.t. (without reinforcing layer).

Allow first coat to dry for 10 to 12 hours before proceeding for second coat.

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 two coats to provide additional strength to the treatment, the reinforcing layer embedded in first coat while first coat is wet. The 2 coats shall form 1.3mm to 1.5mm d.f.t. (with reinforcing layer).

On vertical area, the waterproofing treatment should be extended up to 200 mm and terminated into the groove cut on the parapet wall, the groove filled with polymer-modified mortar modified with **DANOCRET SBR**. Protect vertical application with at least 15mm cement-sand plaster.

Water ponding test can be carried after 7 days of curing at ambient temperature.

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.

SUPPLY

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

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).

PROPERTIES

Property	Values
Appearance	Smooth Paste
Color	Black
Specific Gravity (ASTM D1475-03)	0.95 ± 0.10
Solid Content, % (ASTM D1644-03)	55 ± 5
Elongation at Break, % (ASTM D412-98)	≥1000
Viscosity@ 25^{0}C, (SpL.7; RPM: 10), CPS	≥50000
Water vapor Transmission (g/m² hr.) (ASTM E96-95)	≈0.45
Tensile Set Recovery, %	95
Tear Resistance, KN/m	28 ± 10
Service Temperature, 24 Hours @ 120^{0}C	No Shrinkage
Chemical Resistance, % Weight Change 10% Salt (Sodium chloride) 5% Alkali (Caustic Soda) 5% Acid (Sulphuric)	 3 2 3
Tack Free Time @ 35^{0}C, Hours	10 to 12
Tensile Strength, N/mm^2 (ASTM D412-98)	0.50

COVERAGE

The coverage of **TIKI AQUASEAL RMB** is 1 Kg. /m^2 per coat. When applied in two coats, the average dry film thickness built-up would be 1mm (without reinforcing layer).

CLEANING

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

STORAGE

TIKI AQUASEAL RMB must be stored above 5°C and below 30^0C. Store under the shed and protect from extremes of temperature, heat, and direct sunlight.

SAFETY PRECAUTIONS

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin / eye contact, rinse with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

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