

REVESTIDAN PROTECT MAX

Next-Gen, Liquid Applied Hybrid Polyurethane Waterproofing Coating

TIKIDAN
Building together

DESCRIPTION

REVESTIDAN PROTECT MAX is ready to use single component, liquid-applied Elastomeric waterproofing coating based on Next generation-hybrid polyurethane technology, supplied in aqueous dispersion. Once cured, it forms a continuous, elastic, and seamless waterproofing film that is U.V. resistant, offering triple protection against water ingress, heat build-up, and fungal growth.

Its ultra-reflective white finish (SRI up to 106) improves thermal comfort and energy efficiency of buildings.

REVESTIDAN PROTECT MAX is versatile product, it's durable, and designed for roof waterproofing and rehabilitation.

ADVANTAGES

- High elasticity and crack bridging ability.
- Excellent adhesion on multiple substrates (concrete, mortar, metal, asphalt sheets, etc.).
- UV-resistant, durable and long-lasting.
- Ultra-reflective white finish (SRI 106) – reduces heat absorption and improves insulation.
- Zero or Very Low water absorption and dirt pick-up.
- Excellent weather resistance (up to 15 years)
- Easy to apply, seamless and joint-free.
- Resistant to occasional pedestrian traffic
- Compatible with asphalt sheet renovations.
- Environmentally friendly, water-based and solvent-free (Very low VOC).

USES

REVESTIDAN PROTECT MAX is ideal for waterproofing:

- The non-trafficable roofs that can be visited occasionally and for maintenance purposes.
- Re-waterproofing of roofs with self-protected asphalt sheets (aluminium or slate).
- Waterproofing of concrete, mortar or metal substrates and re-waterproofing of metal roofs.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

New concrete should be ≥ 28 day old and sound with moisture content $<5\%$.

Remove all laitance, foreign matter, dirt, oil, grease and loose particles using conventional methods.

All existing cracks and expansion joints shall be treated with **TIKISEAL PU40** polyurethane sealant.

Provide 75mmx75 mm coving at H-V junctions and parapet wall covered using polymer-modified mortar modified **DANOCRET SBR**.

MATERIAL PREPARATION

Prior to use, **REVESTIDAN PROTECT MAX** should be stirred using slow speed mixer (approx. 400 rpm) fitted with an agitator/shake the product until it is perfectly homogenised.

Prior to mixing, any skin/film formation on top surface in container should be scrapped off and removed.

After stirring, allow induction period of 5-10 minutes allowing entrapped air to escape/release.

SURFACE PRIMING

Apply a primer coat by diluting **REVESTIDAN PROTECT MAX** with potable water in 3:1 by weight uniformly covering the entire surface and making sure that it penetrates well into all cracks or fissures.

Allow primed surface to touch dry approximately 24 hours under normal conditions of temperature and relative humidity.

APPLICATION

REVESTIDAN PROTECT MAX is applied in two coats** by brush/roller/airless spray @ 2.0 – 2.8 Kg. /m² per coat, while primed surface is dry. Second coat is applied perpendicular to dried first coat.

**Depending upon the project requirement/specification, reinforcing layer of 50gsm polyester scrim 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 1.0mm to 1.5mm d.f.t. (with/without reinforcing layer).

APPLICATION DATA

Colour	White
Touch dry	1-3 hour
Recoat interval	6-8 hours
Full cure time	24 hours
Service temperature range	-5°C to +75°C (without reinforcement) -10°C to +75°C (with reinforcement)
Application Temperature	5°C to 40°C
UV stability	Excellent
Density @23°C	1.30 ± 0.05 kg/m³
Solid Content	≥ 60 %
Viscosity @23°C (SP. 4/RPM-5)	10000-15000 cps
Theoretical coverage*	2.0–2.8 kg/m²

*Coverage is approximate, and it depends upon the site conditions and surface porosity at the time of application. At least 7 days of complete curing of waterproofing is must for post application test.

CLEANING

Immediately after application of **REVESTIDAN PROTECT MAX**, use water for cleaning application tools. Once dried, use suitable solvent for removing dry material.

SUPPLY

REVESTIDAN PROTECT MAX is supplied in 20Kg., pack. It has a shelf life of 24 months when stored under the covered shed in sealed condition.

SAFETY PRECAUTIONS

Refer SDS of **REVESTIDAN PROTECT MAX** for detailed information.

PROPERTIES

Properties**	Values	Test Standard
Elongation	600 ± 100%	ASTM D412
Tensile Strength	≥ 2.0 N/mm²	ASTM D412
Tear Strength	≤ 15 KN/m	ASTM D624
Solar Reflective Index	106	ASTM E1980
CO ₂ permeability	Sd > 50 m	EN 1062-6
Water Vapor Permeability	Class I (Sd < 5 m)	EN ISO 7783
Water Absorption	0.02 kg/m²·h ^{0.5}	EN 1602-3
Adhesion after thermal compatibility	2.9 N/mm²	EN 1542
Crack Bridging Ability	≥ 2.5 mm	EN 1062-7
Water Swelling	< 10 %	ASTM D471
Pull of Adhesion	1.8 N/mm²	ASTM D4541
Fungi Resistance	Zero (No Growth)	ASTM G21

** Mentioned values are based on testing under ideal laboratory conditions. Actual test results are subjected to 5-15% tolerance due to circumstances which are beyond our control, viz: variation in test methods, sample preparation, test temperatures & conditions, manual errors, etc. TIKIDAN reserves the right to change the properties of its products without prior notice.

STORAGE

REVESTIDAN PROTECT MAX must be stored between 5°C and 40°C in original tightly closed containers. Store under the shed & protect from extremes of temperature, heat, direct sunlight, and children.

OTHER PRECAUTIONS

- Do not apply in rain, snow, ice, or strong winds.
- Not for permanent water contact or roofs with heavy protection (pavement, gravel, landscaping).
- Prime substrate; apply next coat only after full drying.
- Protect surface from sharp/heavy objects.
- Clean tools with water immediately (hardened residues require mechanical removal).
- Store in cool, dry place, away from frost and sunlight.

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