ROOFTEC POLY-GUARD

DATA SHEET

ONE COMPONENT, HIGH ELASTICITY POLYURETHANE LIQUID ROOFING MEMBRANE FOR SEAMLESS WATERPROOFING

Rooftec Poly-Guard is a highly elastic, thixotropic, polyurethane liquid membrane ideal for roofing applications. Being thixotropic, it can easily be applied to both horizontal and vertical surfaces without running. Ideal for applications where rheology is very important due to its thixotropic properties such as slopped roofs, flashing details, upstands and under tile waterproofing. Rooftec Poly-Guard is rapid curing with a tack free time of less than 2 hours. Rooftec Poly-Guard cures with the humidity in the atmosphere and adheres to most substrates. Based on pure, elastomeric, hydrophobic polyurethane resin which results in excellent waterproofing properties. Available in 6kg, 15kg & 25kg.

RECOMMENDED FOR:

Waterproofing and protection of:

- Flat roofs
- Slopped roofs/surfaces
- Verandas/balconies
- Bathrooms
- Basements
- Foundations (not a humidity barrier)

FEATURES AND BENEFITS:

- **Thixotropic:** Easily applied on vertical or slopped surfaces and complex shapes without the risk of running or bubbling.
- Excellent adhesion on almost any substrate when used with a primer.
- Excellent thermal resistance. Max service temperature 80°C.
- Resistance to cold; Remains elastic down to -40°C.
- No thinning required.
- Excellent mechanical properties.
- Water vapour transmission. The film breathes so there is no accumulation of humidity under the coat.

LIMITATIONS:

Not recommended for:

- Unsound substrates in some cases, application is possible with the use of Rooftec Reinforcement Mat).
- Waterproofing of swimming pool surfaces in contact with chemically treated water.
- For exposed use, Rooftec Top Coat is recommended in order to maintain long-term solar reflectance and weather resistance.

COMPLIANCE - CERTIFICATION:

- The adhesion strength of Liquid Rooring Membrane exceeds the requirements of EOTA (European Organization of Technical Approval).
- CE certified according EN 1504-2:2004.

SUITABLE TO BE USED ON:

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood, corroded metal, and galvanized steel. For information about other substrates, please contact our technical department.

APPLICATION PROCEDURE:

Surface Preparation: Make sure surface is cleaned and free of any oil, grease and wax contaminants. Loose debris, cement laitance, mould or chemical agents must be removed. Use a high-pressure washer if possible. Fill in and seal any irregularities and laps with Rooftec PU Joint Sealer and Butyl tape.

Priming: Apply the required primer. Please refer to the application guide and primer data sheets for further guidance.

Mixing: Use a low speed (300rpm) mixer with a paddle if possible.

Application: Apply on a dry surface using a roller, squeegee, brush or airless spraying in one or two coats. Do not leave more than 24 hours between coats. If more time passes or you are unsure of interlayer adhesion, please contact our technical department.

If applying over felt, bitumen, asphalt or unsound substrates, Rooftec Reinforcement Mat must be used wet on wet between two coats.

CONSUMPTION:

Minimum total consumption of between 1.5kg – 2kg/m^2, dependant on substrate.

CLEANING:

Clean tools and equipment with paper towels and then solvent. Rollers will not be reusable.

SHELF LIFE:

Kept in a cool dry place for up to 12 months from production date in original, unopened pails at temperatures between 5-25°C. Once opened, use as soon as possible.

PRECAUTIONS:

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

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TECHNICAL SPECIFICATIONS

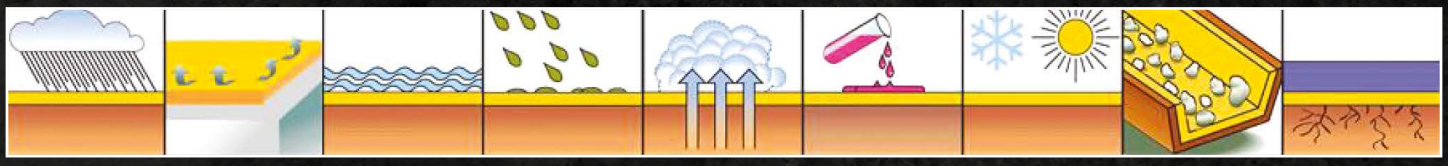
THE PRODUCT IN LIQUID FORM (BEFORE APPLICATION):

~90% dry matter in Xytol.

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25°C	2,000-4,000
Specific weight	gr/cm^3	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C	1.45-1.55
Flash point	°C	ASTM D93, closed cup	> 42
Tack free time, @ 77°F (25°C) & 55% RH	hours	-	2-4
Recoat time	hours	-	4-24

THE CURED MEMBRANE):

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Hardness	Shore A	ASTM D2440 / DIN 53505 / ISO R868	70
Tensile strength at break @ 23°C	kg/cm^2 (N/mm^2)	ASTM D412 / EN-ISO-527-3	>40 (> 4)
Percent elongation @ 23°C	%	ASTM D412 / EN-ISO-527-3	> 600
Water vapor transmission	gr/m^2, hr	ASTM E96 (Water method)	0.8
Adhesion to concrete	kg/cm^2 (N/mm^2)	ASTM D4541	>20 (> 2)



Certified quality, environment and occupational health & safety management systems: ISO 9001/14001 & OHSAS 18001.

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