

PRODUCT DATA SHEET

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2000 PLUS REFLEX B_{ROOF} T2

DESCRIPTION OF THE PRODUCT

Water-based, white coloured, liquid elastomeric protective membrane formulated with special fillers and additives that provide high solar reflectivity and infrared emissivity. The product is resistant to water stagnation and is ideal for application on large surfaces. Its reaction-to-external -fire classification ensures optimal protection of **B_{ROOF} T2** bituminous membranes, providing a certified waterproofing system.

Formulated by WINKLER Research & Development Laboratories.

APPLICABLE REGULATIONS

2000 PLUS REFLEX B_{ROOF} T2 complies with the following standards and classifications:

- Classified **B_{ROOF} T2** in accordance with UNI EN 13501-5 (reaction to external fire)
- Solar Reflectance Index (SRI) determined according to ASTM E1980-11
Initial SRI: 106

FIELDS OF USE

2000 PLUS REFLEX B_{ROOF} T2 is designed for the protection of certified B_{ROOF} (T2) bituminous membranes in applications requiring specific reaction-to-fire performance.

It is especially suitable where enhanced thermal insulation is needed and where reducing solar heat gain can contribute to energy savings in building conditioning. Moreover, it can improve the efficiency of solar and photovoltaic panels by minimizing surface temperature increases.

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, loose or friable material, and any foreign or non-adherent substances. Ensure that the bituminous membranes have been correctly installed and that all overlaps are properly bonded. Repair any damaged or incomplete seals using **WINSEAL**.

RECOMMENDATIONS

Do not add any additives.

Do not use the product if the packaging is damaged.

Do not dilute with water or solvents.

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WARNINGS

Apply **2000 PLUS REFLEX B_{ROOF} T2** at temperatures between +5°C and +35°C. Protect the treated surface from water, rain, and snow for the first 24 hours. Avoid application under conditions of high night-time humidity.

PRIMER APPLICATION

If the bituminous membrane on which **2000 PLUS REFLEX B_{ROOF} T2** is to be applied is not yet oxidized (≤ 180 days), apply **2000 FAST PRIMER** on a dry and clean substrate at a consumption rate of 250 g/m².

Refer to the table below for the recommended waiting time before over-applying **2000 PLUS REFLEX B_{ROOF} T2**.

TABLE 1 – DRYING TIME 2000 FAST PRIMER

WHEATHER CONDITIONS	OVER-APPLYING
20°C up to 55% RH	3 h
15°C up to 55% RH	5 h
10°C up to 55% RH	8 h
5°C up to 55% RH	12 h

APPLICATION

The product is ready to use. Before application, mix briefly to ensure uniform consistency. Apply on a clean, dry surface using a roller, brush, or airless spray gun.

Apply **2000 PLUS REFLEX B_{ROOF} T2** in two layers, allowing at least 24 hours between the first and the second coat.

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CONSUMPTION

1.2 – 1.4 kg/m² in two coats

PACKAGING

5-10-20 kg buckets

STORAGE

The product in its original and undamaged packaging, can be stored for up to 12 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

SAFETY INSTRUCTIONS

PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

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TECHNICAL FEATURES (average value)

FEATURES	STANDARD	RESULT
Appearance	-	Fluid Paste
Colour	-	Reflecting White
Density at +20°C	EN ISO 2811-1	1,5 ± 0,05 g/cm ³
Solid content	EN ISO 3251	72 ± 2%
pH	UNI EN 8490-4	9 ± 1
Brookfield viscosity at 20°C	UNI EN 8490	12.000 + 2.000 cPs

PERFORMANCE OF THE PRODUCT IN SERVICE

FEATURES	STANDARD	RESULT
Operating Temperature	-	-20°C to + 80°C
Initial Elongation at Break	ASTM D 2370	≥ 150 %
Initial Tensile Strength	ASTM D 2370	≥ 2,8 N/mm ²
Accelerated Weathering (5 years)	UNI EN ISO 4892-3 Cycle 3	No delamination or breakage
Elongation at Break after Accelerated Weathering	ASTM D 2370	≥ 100 %
Tensile Strength after Accelerated Weathering	ASTM D 2370	≥ 2,0 N/mm ²
Water Absorption after 7 Days Immersion	ASTM D 471	≤ 20%
Resistance to Ponding Water	-	Excellent

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SOLAR PROPERTIES ACCORDING TO ASTM E 903-96, ASTM C 1371, AND ASTM E 1980

PROPERTY	RESULT
Solar Reflectance Index (SRI)	> 107.7%
Solar Reflectance Factor (ρ_e)	0.85
Solar Absorption Factor (α)	0.14
Emissivity (ϵ)	0.92

PRODUCT FOR PROFESSIONAL USE ONLY

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