



WINGUM PLUS H₂O REFLEX

Art. code see DDT

Date of issue 04.05.2018

Review nr. 09

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DESCRIPTION OF THE PRODUCT

Water-based elastomeric white-coloured liquid protective membrane, based on special charges and additives which give to the product high solar reflectivity and emissivity to infrared, resistant to water stagnation. Ideal also for large surfaces, WINGUM PLUS H₂O REFLEX meets the **CRRC** certification criteria (**Cool Roof Rating Council**) and also **ETAG 005** guide lines, for liquid products, applied as waterproofing ones.

USE FIELD

Product used to protect bituminous membranes and roofing, also flat as: cement, fiber-cement, expanded glass panels, concrete, XPS, EPS, polyurethane insulating panels, bitumen-polymer membranes (oxidized for a minimum of 180 days) and metal roofs. In this last case, in order not to compromise the good result of the job, it may be necessary removing the eventual rust and apply a coat of WHITE WINGUM PLUS H₂O (300g/m²), as anticorrosive bottom. Where you need to improve thermal insulation and lower the heat irradiated by the sun with a consequent energy-saving for conditioning of buildings and a considerable energy increase of solar and photovoltaic panels.

SURFACE PREPARATION

Accurately clean the support to eliminate: dust, crumbly parts, foreign or bonding-proof matters. Check for possible humidity contained in the support to avoid onset of air bubbles due to vapour pressure.

The best way to find out if there is any hidden humidity contained in the support is the application of a polyethylene sheet over the surface of the support and sealed with painter's tape. Leave this exposed to the sun and check for water condensation after 24 hours. If there is no condensation water, apply WINGUM PLUS H₂O REFLEX, on the contrary, wait for full drying.

WARNING

In case WINGUM PLUS H₂O REFLEX should be applied on bituminous membranes, the modified membrane must have undergone at least 180 days of oxidization before to applying the product. Apply WINGUM PLUS H₂O REFLEX at temperatures between 41F and 104F.

Do not add any additive.

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IN CASE OF DOUBT PLEASE CONSULT OUR TECHNICAL SUPPORT



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Do not use the packaging if damaged.
Do not add water or solvents.

APPLICATION

The product is ready to use and can be applied by roller, brush, large paintbrush, steel plastering trowel and spraying airless gun. Apply the product in 2 coats at least (wait 24 hours from the first application to the second) in order to get an homogeneous thickness, ideal for waterproofing. In order to assure waterproofing function, on perimeter edges of the surface, apply the waterproofing adhesive band BC SEAL BAND.

To extend the reflectance of WINGUM PLUS H₂O REFLEX, it is advisable to apply, once dry (at least 24 hours after the last coat), WINCLEAN, transparent protective membrane with a low dirt hold (consumption about 80g/m²), paired with a periodical cleaning.

APPLICATION WITH REINFORCEMENT

On supports particularly subject to deformation, also considerable, therefore presenting a high risk for cracking, please reinforce WINGUM PLUS H₂O REFLEX with WINTECHNO MAT. Application must be carried out as follows:

Apply WINGUM PLUS H₂O REFLEX in a uniform coat on the support, lay over the WINTECHNO MAT using the steel plastering trowel to ensure the adherence of the mat to the liquid membrane. Let the product to fully dry (18-24 hours) and then resume the application of the second coat of WINGUM PLUS H₂O REFLEX until getting the consumption indicated in the technical data sheet.

SURFACES WITH JOINTS

Use WINFLEX JOINT BAND, waterproofing elastic band, made of gum and polyester fabric, suitable for waterproofing structural joints.

The application of WINJOINT BAND should be done as follow: clean the surface in order to eliminate eventual backwater. Apply WINGUM PLUS H₂O sideways to the joint and for a mayor width than the cover-joint, leaving free the central part. Lay out the cover-joint.

CONSUMPTION

1.4 – 1.6 kg/m² .

1.6 -1.8 kg/m² on bituminous membranes in two coats with reinforcement interposed.

1.8 – 2.0 kg/m² on concrete in two coats with reinforcement interposed.

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PACKAGING

5-10-20kgs pails. (1.25 – 2.5 – 5 gallon buckets.)

STORAGE

The product in its undamaged packaging can be stored for 12 months. Please store it at temperatures between +5°C and +35°C. (41F and 104F.) No frost-proof.

SAFETY INSTRUCTIONS

PRECAUTIONS

For information about safety, user must refer to the most recent Safety Data Sheet, edited in accordance with the regulations in force, which contains physical, toxic and other data about the product in use.

ECOLOGY

Do not dispose the product and/or empty containers in the environment. Consult the most recent Safety Data Sheet for further information about disposals.

TECHNICAL FEATURES

Look:	Fluid paste
Colour:	White
Density at 20°C (g/cm ³):	1.20 + 0.05
Solid content (%):	60 ± 3
PH:	9 ± 1
cPs brookfield viscosity at 20°C:	24000 ± 2000

OPERATIONAL PRODUCT PERFORMANCES

Operational temperature:	-20°C + 80°C
Resistance to atmospheric agents:	Good
Resistance to U.V. rays:	Good

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Resistance to water stagnation:	Good
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Adhesion after sun-rain cycles, 25 cycles (UNI 10686:1998)

Support	Before sun-rain cycles	After sun-rain cycles	Required
Concrete	1,3 N/mm ²	1,04 N/mm ²	≥ 1,0 N/mm ²
Ceramics	1,5 N/mm ²	1,02 N/mm ²	≥ 1,0 N/mm ²

Tensile and elongation strength at break (DIN 53504 :1985)

Longitudinal

Strength at break (N/mm ²)	Elongation (%)
3,0	175

Transversal

Strength at break (N/mm ²)	Elongation (%)
2,78	128

Resistance to abrasion ETAG 008

Number of passages	Weight loss in %
10.000	0

Resistance to abrasion ETAG 008 after 24 hours water immersion pH 5,5

Number of brush passages	Weight loss in %
10.000	0

Results according to

ASTM E903-96

ASTM C1371

ASTM E 1980

Solar reflection index "SRI"	> 107%
Solar reflection factor "ρ _e "	0,86
Solar absorption factor "α"	0,14
Emissivity "ε"	0,90

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Product meets with prescriptions of 2003/53/CE Directive.

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