PRODUCT DATA SHEET

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WINGLUE UNIVERSAL

DESCRIPTION OF THE PRODUCT

WINGLUE UNIVERSAL is a water-based, bitumen adhesive modified with special synthetic polymers, designed for bonding bituminous membranes and insulation panels. Thanks to its formulation, it offers high resistance to water and ageing.
Formulated by WINKLER Research & Development Laboratories

FIELDS OF USE

WINGLUE UNIVERSAL is an adhesive suitable for horizontal applications, for surfaces with a slope of less than 45°, and for vertical surfaces up to 40-50 cm in height, for bonding bituminous membranes and insulation panels when the use of open flame is not possible. It can also be used for sealing overlaps of bituminous membranes.
The product is intended to achieve full adhesion on concrete substrates, cementitious screeds, wood, existing and new smooth or mineral-finished bituminous membranes, as well as on insulation panels.

To ensure full adhesion of the waterproofing layer, the use of bituminous membranes sanded on both sides is recommended. In the case of self-protected membranes, the bonding surface must be sandblasted.

WINGLUE UNIVERSAL complies with **UNI EN 11442**, "Criteria for the Design and Execution of Continuous Roofing Systems", when used as a cold-bonding restraint in all or part of a roofing system.

SURFACE PREPARATION

WINGLUE UNIVERSAL offers excellent impregnating performance; however, the substrate must be carefully prepared by removing dust, loose or friable materials, and any and foreign substances. The product must be applied to a completely dry surface; application on damp substrates will significantly extend the drying time.

RECOMMENDATIONS

Do not add any additives.
Do not use the product if the packaging is damaged.
Do not add water or solvents.

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WARNINGS

The product must be applied on fully dry substrates at temperatures between +5°C and + 35°C. Do not apply the product on frozen surfaces, on substrates subject to night frost, or during rainy or wet weather conditions. Wind, as well as high and low temperatures, can significantly shorten or extend the application times.

APPLICATION

The product is ready to use and must not be diluted with water or any other solvent. It must be applied using a roller or brush, ensuring a uniform and consistent layer.

Before starting the installation of the bituminous membrane, allow the product to become fully dust-dry to achieve optimal bonding strength. This can be easily checked by touch: although the water has evaporated, **WINGLUE UNIVERSAL** should exhibit high tack strength, which will maintain over time.
The time requested for surface drying depends on the porosity of the substrate and environmental conditions:

- For low-porosity substrates at +20°C, the membrane can generally be applied after approximately 90 minutes.
- For highly porous substrates at +20°C, application may be possible after about 30 minutes.

Overlapping of bituminous membrane joints can be sealed with **WINSEAL**.
For the installation of insulating panels, the maximum allowed panel size is 125x125 cm.



LEGEND:

1. Substrate.
2. **ECOIMPRIMER** Bituminous primer.
3. **COVERBLOCK 4 mm**, vapor barrier
4. **WINGLUE UNIVERSAL** for bonding the thermal insulation panels.
5. Thermal insulation panel.
6. **WINGLUE UNIVERSAL** for bonding the under-tile membrane.
7. **COVERGUM SPECIAL MINERAL,** bitumen-polymer membrane.
8. Cap washer.

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CONSUMPTION
0.500-0.600 kg/m² on non-porous, undamaged substrates (membranes, panels)
0.600-0.750 kg/m² depending on substrate unevenness

PACKAGING
5-20 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).

TECHNICAL FEATURES
(average value)

FEATURES	RESULTS
Appearance	Fluid, viscous
Colour	Brown (turns black when dry)
pH	11 ± 0.5
Density at +20°C	1.08 g/cm³
Solid content	73%
Over-application time at +20°C	90 minutes

winkler® Advanced Building Material
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PRODUCT PERFORMANCE IN SERVICE

FEATURES	RESULTS
Water absorption (after 24 h immersion in water)	9 %
Peel resistance after 24 h from application	12.5 N
Peel resistance after 24 h	3.15 N
Peel resistance after ageing test (8 days at +80°C with forced ventilation)	7.9 N
Joints traction resistance (membrane-to-membrane) after 24 h	123.5 N
Joints traction resistance (membrane-to-membrane) after ageing test (8 days at +80 °C with forced ventilation)	215.6 N

VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION (µg/m³)
TVOC after 3 days	≤ 750
TVOC after 28 days	≤ 60

Test performed by the EUROFINS Institute according to EN 16516, ISO 16000-3/6/9/11 and ASTM D5116-10. Test report n. 392-2017-00404102_G_EN_02.

The product complies with the requirements of Directive 2003/53/EC.

PRODUCT FOR PROFESSIONAL USE

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