

## DESCRIPTION OF THE PRODUCT

WINGLUE UNIVERSAL is a bond based on water and bitumen modified with synthetic polymers for bituminous membranes and insulating panel. Thanks to its formulation it has a high water and ageing resistance. Product formulated by WINKLER R&D Laboratories.

## APPLICATION FIELDS

WINGLUE UNIVERSAL is a bond suitable for the horizontal laying, on surfaces with a slope inferior to 45° and vertical sides within 40-50 cm height of bituminous membranes and insulating panels, when we cannot use either fire. It can be used also for the sealing of bituminous membranes overlapped parts. Used for getting total adhesion on concrete surfaces, cementitious screeds, wood, on both existing and new smooth and slated bituminous membranes and on insulating panels.

In order to get total adhesion of the waterproofing layer, we recommend the use of bituminous membranes sanded on both sides or, in any case, for self-protected membranes, with the bonding face treated by sandblasting.

WINGLUE UNIVERSAL complies with UNI EN 11442 "Criteria for the Design and Execution of Continuous Roofing Systems" in the case of cold-bonding constraint on a (or part of) roofing system.

## SURFACE PREPARATION

WINGLUE UNIVERSAL has very good impregnating performance; however, it is advised to accurately clean the support to eliminate: dust, crumbly parts and foreign substances. The application must be made on dry surface; on the contrary drying time will be hugely slowed down.

## WARNING

No additives are required.

Do not use if the packaging is damaged.

Do not add water nor solvents.

The product must be applied on fully dry surface. At temperatures between +5°C and +35°C. Therefore, do not apply the product on frost surfaces or subject to night chill or with rainy weather. Wind, high and low temperatures, may both extend or shorten drying time considerably.

## APPLICATION

WINGLUE UNIVERSAL must be applied by roller, brush and large brush working to ensure the application of an appropriate and constant layer.

The product is ready to use and must absolutely not be diluted with water or other solvents.

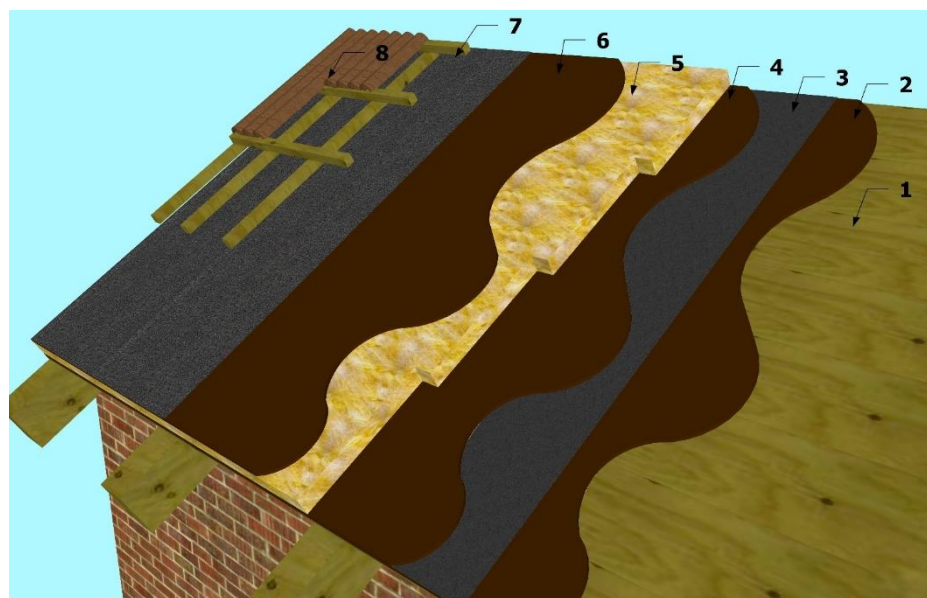
Before starting the assemblage of the bituminous membrane, please wait that the product is fully dust dry to achieve the optimal bonding strength. This condition can be simply checked by touch, verifying that, albeit water has evaporated, WINGLUE UNIVERSAL achieved high tack strength that it will later keep in time.

The time necessary to achieve superficial drying depends on the porosity of the support and on the weather conditions. Generally, with low-porosity support at 20°C, the membrane can be applied after 90 minutes.

When supports are highly porous at 20 °C, the membrane application can be made also after 30 minutes. Due to the high range of supports and environmental conditions, we suggest checking by means of a test the time necessary to overlap the membrane.

The sealing of bituminous membrane overlapped parts can be made by WINSEAL.

In case of sealing of insulating panels, the max. allowed size is 125x125cm.



**KEY:**

1. Wood board
2. **WINGLUE UNIVERSAL** for vapour barrier bonding.
3. **COVERBLOCK 4m**, vapour barrier.
4. **WINGLUE UNIVERSAL** for insulating panels bonding.
5. Insulating panels
6. **WINGLUE UNIVERSAL** for under-tile membrane bonding
7. **SOTTOTEGOLA -15°C** in one layer
8. Battens and roof tiles.

**CONSUMPTION**

- 0.500-0.600 kg/m<sup>2</sup> for non-porous and undamaged supports (membrane, panels)
- 0.600-0.750 kg/m<sup>2</sup> depending on unevenness of supports.

**PACKAGING**

5-20 kg pails.

## STORAGE

The product in its undamaged packaging and stored in a dry and protected place has 12 months of life. No frost-proof. Please store it at temperatures between +5 and +35 °C.

## SAFETY NORMS

### PRECAUTIONS

For information about safety norms, the user must consult the most recent Safety Sheet, edited in conformity with the Norms in force, containing physical, toxicological and other data about the product in use.

### ECOLOGY

Do not throw the product and /or empty packs out in the environment. Consult the most recent Safety Sheet for further information about eventual disposals.

## TECHNICAL DATA (average values)

### PRODUCT FOR PROFESSIONAL USE

Aspect:	Fluid, viscous
Colour	Brown (black once dried)
Ph	11 ± 0.5
Density at 20°C (g/cm <sup>3</sup> )	1.08
Solid content (%)	73
Kg/m <sup>2</sup> consumption	0.500-0.750
Over-application Time (20°C)	90 minutes
<b>OPERATIONAL PRODUCT PERFORMANCES</b>	
Water absorption (after 24 hours immersion into water).	9%
PELAGE resistance after 24 hours from the application.	12.5 N
PEEL resistance after 24 hours	3.15
PEEL resistance after obsolescence test (8 days at 80° with pushed ventilation)	7.9 N
JOINTS TRACTION resistance (membrane - membrane) after 24 hours	123.5 N
JOINTS TRACTION resistance (membrane - membrane) after obsolescence test (8 days at 80° with pushed ventilation).	215.6 N

## VOC emission

Parameter	Limit content ( $\mu/m^3$ )
TVOC after 3 days	$\leq 750$
TVOC after 28 days	$\leq 60$

Tests performed by the EUROFINS institute according to EN 16516, ISO 16000-3-6-9-11 and ASTM D5116-10 regulations, Test report N.392-2017-00404101\_G\_EN

Complying to the Directive 2003/53/CE

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out. WINKLER S.r.l. reserves the right to modify and update said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.