PRODUCT DATA SHEET

WINGLUE

ITEM CODE: SEE DN
ISSUE DATE: 19/03/2026
REVIEW: NO. 7

DESCRIPTION OF THE PRODUCT

WINGLUE is an adhesive based on bitumen compounds modified with synthetic polymers, specifically designed for bituminous membranes, insulating panels, and expanded glass panels. The product is completely free from organic solvents, ensuring the absence of environmental impact related to solvent emissions.
Formulated by WINKLER Research & Development Laboratories

WINGLUE has obtained the prestigious **EC 1 PLUS** classification, identifying it as an **EMICODE®** - certified product with very low emissions of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).

FIELDS OF USE

WINGLUE is an adhesive suitable for horizontal applications and for vertical applications up to 40-50 cm in height, without mechanical fastening, for bonding bituminous membranes and insulation panels where a cold- bonding system is required. It ensures complete adhesion to concrete substrates, cementitious screeds, wood, existing and new smooth or slate-surfaced bituminous membranes, as well as to 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 treated by sandblasting prior to application.

WINGLUE complies with **UNI 11442** "Criteria for the Design and Execution of Continuous Roofing Systems", for applications where a cold-bonding requirement is specified for the entire roofing system or part thereof.

SURFACE PREPARATION

WINGLUE 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.

winkler® Advanced Building Material

Winkler Srl
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
info@winklerchimica.com - www.winklerchimica.com

PRODUCT DATA SHEET

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 installing the bituminous membrane, allow the product to become fully dust-dry to achieve optimal bonding strength. This can be checked by touch: although water has evaporated, **WINGLUE** should exhibit high, which will be maintained over time.
The time required for superficial drying depends on the porosity of the substrate and environmental conditions:

- On low-porosity substrates at 20°C, the membrane can generally be applied after 90 minutes.
- On highly porous substrates at 20 °C, membrane installation may be possible after 30 minutes.

Due to the wide range of substrates and environmental conditions, it is recommended to perform a preliminary test to determine the exact drying time required before membrane installation.

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.

winkler® Advanced Building Material

Winkler Srl
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
info@winklerchimica.com - www.winklerchimica.com

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	STANDARD	RESULTS
Appearance	-	Fluid, viscous
Colour	-	Brown (turns black when dry)
pH	UNI EN ISO 3251	11 ± 0.5
Dust dry time at +20°c	-	90 minutes
Specific gravity at 20°C	UNI EN ISO 2811-1	1.08 g/cm³
Solid content	UNI EN 8490-4	70 %
Consumption	-	0.500-0.750 kg/m²
Minimum application temperature	-	+5°C

winkler® Advanced Building Material
Winkler Srl
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
info@winklerchimica.com - www.winklerchimica.com

PRODUCT PERFORMANCE IN SERVICE

FEATURES	RESULTS
Adhesion: WINGLUE + Insulating Panels	Constant delamination of insulating panels observed
Adhesion: WINGLUE + Bituminous Membranes	Average value: 1.28 MPa

PHYSICAL FEATURES
ASTM 3747

TEST	STANDARDS	RESULTS	NOTES
HEAT TEST: 1 panel, 4"x4"x1/16", Conditioned 48h at room temperature 73.6 ± 3°F	ASTM D 2939	PASS	After the test, the emulsion showed no bubbles or detachment
ADHESIVE STRENGTH: 2 specimens, 2 g each, 2"x2" (ASTM C 208), cured 24h at 73.6 ± 3°F, vertical test with 5 lb mass for 2h, visual inspection for loss of bond	ASTM D 3747	PASS	No loss of bond observed

Data certified by:

PRI Construction Materials Technologies LLC
6412 Badger Drive
Tampa, FL 33610

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.

DISCLAIMER AND LEGAL NOTICE – WINKLER

The information and instructions contained in this Technical Data Sheet are prepared on the basis of WINKLER's best technical and application knowledge and are provided for guidance only. However, since WINKLER cannot directly control site conditions or the execution of works, these indications are in no way binding on WINKLER.

The data provided do not exempt the purchaser from the responsibility of verifying, through practical tests and comprehensive applications, the suitability of the product for the intended use and of determining whether it is appropriate for the desired application; the user assumes all responsibility arising from its use. The customer is also responsible for verifying that this Technical Data Sheet is valid for the batch of product of interest and that it has not been superseded by later editions. The updated Technical Data Sheet is available on WINKLER's official website.

The contents of this Technical Data Sheet may be reproduced in other project documents, but the resulting document may under no circumstances replace or supplement the Technical Data Sheet in force at the time of application of the WINKLER product. Any alteration of the text or conditions contained in this Technical Data Sheet or derived from it releases WINKLER from any liability. WINKLER reserves the right to make technical changes of any kind to its products and/or Technical Data Sheets without notice. This revision cancels and replaces all previous ones.

Winkler Srl
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
info@winklerchimica.com - www.winklerchimica.com