PRODUCT DATA SHEET

WINDECK

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DESCRIPTION OF THE PRODUCT

Transparent, low-viscosity protective coating specifically formulated to waterproof balconies and terraces affected by water infiltration. Its exclusive single-coat application ensures substrate waterproofing without altering the appearance of tiles. The product is resistant to freeze-thaw cycles and thermal shocks, offering excellent durability and mechanical strength.
Formulated by WINKLER Research & Development Laboratories.

FIELDS OF USE

WINDECK is a transparent protective coating for superficial treatment of tiled balconies and terraces affected by infiltration problems. Applied at a rate of 900 g/m^2, the product provides resistance to medium pedestrian traffic and puncture stresses typical of heels, chairs, tables, and similar loads.
When applied over **WINGUM PLUS H_2O** (at a consumption of 400g/m^2), **WINDECK** creates a system with enhance mechanical resistance. In this case, apply **WINGUM PLUS H_2O** on rigid substrates such as concrete or tiled surfaces, and insert **WINTECHNO MAT** between coats.

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, loose or friable material, and any foreign substances that could cause discontinuities or aesthetic imperfections. Ensure the surface is completely dry to prevent the formation of white spots, blistering, or detachment.
To check the substrate moisture and prevent the formation air bubbles caused by vapor pressure, cover the surface with a polyethylene sheet sealed with adhesive tape on the side exposed to the sun and check after 24 hours. If no condensation is observed, proceed with the application of **WINDECK** If condensation is present, wait until the substrate is fully dry before applying.

RECOMMENDATIONS

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

winkler® Advanced Building Material

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WARNINGS

Apply **WINDECK** at temperatures between +5°C and +35°C.
Ensure all tools are clean and dry, and close containers immediately after use.

Protect the treated surface from water, rain, and snow for at the first 48 hours after application. Avoid any substances settling on the surface before it dries, as this may cause aesthetic imperfections. Do not apply under conditions of high night-time humidity.

Product viscosity may vary with extreme storage temperatures. For optimal workability, store **WINDECK** at approximately +20°C for at least 24 hours before use.

APPLICATION

The product is ready to use and does not require a primer. Apply to clean, dry substrate using a notched metal trowel, followed by a spiked roller to remove any trapped air bubbles. Apply in a single coat to achieve a uniform thickness.
The substrate treated with **WINDECK** can be walked on 72 hours after application at an average temperature of +20°C.

Curing Time Based on Temperature

Temperature	Time Before Walkability
20°C	3 days
15°C	4 days
10°C	5 days
5°C	7 days

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Overlapping Time of **WINDECK** on **WINGUM PLUS H_2O** Cycle

Temperature	Time Before Walkability
20°C	3 days
15°C	4 days
10°C	5 days
5°C	7 days

CONSUMPTION
Approximately 0.9kg/m^2 in one coat
0.4 kg/m^2 applied on **WINGUM PLUS H_2O**, in one coat

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).

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TECHNICAL FEATURES
(average value)

FEATURES	STANDARD	RESULT
Appearance	-	Liquid
Colour	-	Transparent
Specific weight at +20°C	-	1,08 ± 0,05 g/cm^3
Solid content	EN ISO 3251	92 ± 3 %
Brookfield viscosity at 20°C	UNI EN 8490	1.700 + 200 cPs

PERFORMANCE OF THE PRODUCT IN SERVICE

FEATURES	STANDARD	RESULT
Operating Temperature	-	-30°C to + 80°C
Resistance to Atmospheric Agents	-	Excellent
UV Resistance	-	Excellent
Tensile Strength	ASTM D 2370	6.65 N/mm^2
Elongation at break	ASTM D 2370	>160 %
Water Absorption after 1 day immersion	ASTM D 471	0.5%
Water Absorption after 7 days immersion	ASTM D 471	0.9%
Low-Temperature Flexibility (at -26°C)	ASTM D 522	No cracking
Puncture Resistance	UNI EN 12730-4 / UNI EN 12691-A	Static :25 kg Dynamic: 800 mm (500g weight) applied over WINGUM PLUS H_2O
Tensile Strength	ASTM D 2370	2.8 N/mm^2
Elongation	ASTM D 2370	158%
Waterproofness	UNI EN 1928:2002	2 bars
Hardness	DIN 53505-A-87	Shore A 82

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ADHESION TO SUBSTRATE AFTER THERMAL SHOCK CYCLES (25 Cycles)
Test Method: DYNAMOMETER ACCORDING TO UN IEN 1348-2000

Substrate	Before Thermal Shock Cycles	After Thermal Shock Cycles	Requirement
Tile	>2 N/mm^2	>2 N/mm^2	≥ 1.0 N/mm^2

SUPPORT ADHERENCE AFTER 25 CYCLES
ACCORDING TO ASTM C 794

Substrate	Dry substrate	After 7 days Immersion in Water	Requirement
Bituminous membrane	0.74 N/mm^2	0.40 N/mm^2	≥ 0.34 N/mm^2

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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 ONLY

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