

PRODUCT DATA SHEET

2021 FIBER

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DESCRIPTION OF THE PRODUCT

Drawing on WINKLER's long-standing waterproofing tradition and the exclusive **WINKLERSAFE**® technology for the formulation of water-based products with low environmental impact, **2021** has evolved into the **FIBER** version.

2021 FIBER is a water-based, elastomeric, fibre-reinforced, coloured liquid waterproofing membrane resistant to ponding water. The product is 100% solvent-free.

Formulated by WINKLER Research & Development Laboratories.

2021 FIBER 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

2021 FIBER can be applied on roofs, fibre-cement slabs, wooden panels or OSB boards, balconies and terraces subject to occasional pedestrian traffic, as well as on concrete canopies and attics.

The product is specifically designed for use on irregular substrates that require excellent coverage and a thick waterproofing layer that can be applied in a single coat.

The fibres, perfectly balanced with special polymers, allow the waterproofing of surfaces subject to slight movements without the need for reinforcement. It is suitable for application on concrete, wood, fibre cement, brickwork, and for the repair of damaged bituminous membranes.

Surfaces treated with **2021 FIBER** should not exceed an area of 50 m².

2021 FIBER is exceptionally resistant to UV rays, extreme temperatures, and adverse weather conditions.

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, loose or friable material, and any foreign or non-adherent substances. Apply the product to a dry surface.

Although the product can tolerate a residual moisture level in the substrate between 3% and 5%, it is always advisable to check for the presence of hidden moisture to avoid vapour pressure phenomena.

For powdery concrete substrates, it is recommended to apply a preliminary coat of **WINFIX CONCRETE**.

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RECOMMENDATIONS

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

WARNINGS

- The product should be applied only under environmental conditions that allow it to dry completely and as quickly as possible.
- Do not apply the product on frozen surfaces, surfaces exposed to nighttime frost, or during rainy weather. Protect the treated surface from water, rain, and snow for at least the first 24 hours after application. Apply at temperatures between +5°C and +35.

APPLICATION

- 2021 FIBER** can be applied using a brush, large brush, roller, or spatula. A single coat may be applied, provided that the surface is covered uniformly. When using a roller, it is recommended to roll it inside the bucket to load an adequate quantity of product and ensure proper saturation of the tool.
- For corner reinforcement and sealing, it is advisable to apply **BC SEAL BAND**, a self-adhesive band covered with non-woven fabric.
- For waterproofing and sealing around roof penetrations such as drains, ventilation pipes, and other fittings, use **BC SEAL PAD**, a self-adhesive waterproof square, in combination with the **BC SEAL BAND**.

SURFACES WITH JOINTS

Joints up to 1 cm wide

- Seal using the joint cover strip **WINJOINT BAND** (a waterproof elastic band made of rubber and polyester fabric, suitable for joint waterproofing) as follows:
 - After creating new joints or restoring existing ones, apply **2021 FIBER** along the sides of the joint, extending slightly beyond its width.
 - While the product is still wet, lay the **WINJOINT BAND** over the joint, ensuring the perforated side of the band adheres to the area already coated with **2021 FIBER**.
 - Once dry, the product can be fully covered with the final coat of **2021 FIBER**.

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Joints wider than 1 cm

For joints wider than 1 cm, use **WINJOINT FOAM** (compressible polyethylene foam backer rod), **WINJOINT SEAL** (polyethylene sealant), and **WINJOINT BAND** as follows:

After creating new joints or restoring existing ones, insert **WINJOINT FOAM** into the joint to the desired depth.

Extrude **WINJOINT SEAL** along the full length of the joint on top of the foam.

Once the sealant has cured, apply **WINJOINT BAND** over the joint as previously described for joints up to 1 cm.

CONSUMPTION

1.6 kg/m² in two coats

PACKAGING

1 kg cans

5-10-20 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	RESULT
Appearance	Medium Density Paste
Colour	White – Grey – Red - Green
Density at +20°C	1.45 ± 0,05 g/cm ³
Solid content	71 ± 2%
pH	8 ± 1
Brookfield viscosity at 20°C	36.000 + 1.000 cPs

PERFORMANCE OF THE PRODUCT IN SERVICE

FEATURES	STANDARD	RESULT
Operating Temperature	-	-20°C + 80°C
Resistance to Atmospheric Agents	-	Good
Elongation after 14 Days	ASTM D 2370	≥50%
Tensile Strength after 14 Days	ASTM D 2370	≥ 1.67 N/mm ²

ADHESION TEST ON SUBSTRATE ACCORDING TO UNI EN 1348, DYNAMOMETER, AFTER 14 DAYS

SUBSTRATE / PROPERTY	STANDARD	RESULT
Concrete	-	0.70 N/mm ²
Fibre-cement	-	0.61 N/mm ²
Adhesion before sun/rain cycles	UNI EN 10686	2.00 N/mm ²
Adhesion after 25 sun/rain cycles	UNI EN 10686	1.70 N/mm ²
Frost/thaw resistance	UNI EN 10686	Good after 50 cycles
Water vapour diffusion resistance factor	UNI EN 1931	1,113.50 μ
Water absorption	ASTM D 471	≤ 8.0 %

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VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION ($\mu\text{g}/\text{m}^3$)
TVOC after 3 days	≤ 750
TVOC after 28 days	≤ 60

Test performed by the EUROFINIS 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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