

# PRODUCT DATA SHEET

## 2021

ITEM CODE: SEE DN  
ISSUE DATE: 03/11/2025  
REVIEW: NO. 12



### DESCRIPTION OF THE PRODUCT

Formulated by WINKLER Research & Development Laboratories, **2021** is a water-based, elastomeric, coloured liquid waterproofing membrane developed using the exclusive **WINKLERSAFE**® technology. This advanced formulation draws on WINKLER's long-standing expertise in waterproofing and is designed to deliver high performance with minimal environmental impact.

**2021** resistant to ponding water and is composed of high-quality polymers and copolymers. The product is 100% solvent-free.

**2021** 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** is suitable for use on roofs, fibre-cement slabs, balconies and terraces subject to occasional pedestrian traffic, as well as on concrete canopies, and for the restoration of old bitumen membranes (weathered for at least 180 days).

It can be applied on concrete, wood, fibre cement and brickwork, smooth or slate-finished bituminous membranes, and expanded polyurethane.

Surfaces treated with **2021** without reinforcement should not exceed an area of 50 m<sup>2</sup>, whereas the use of **WINTECHNO MAT** (70 g/m<sup>2</sup> reinforcement) removes any size limitations.

**2021** offers exceptional resistance 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

The product is ready to use and can be applied using a brush, large brush, roller or airless spray gun. Apply the product in two coats (allow at least 24 hours between the first and second coat) to achieve a homogenous layer and the ideal thickness for waterproofing.

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** 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**.
- Once dry, the product can be fully covered with the final coat of **2021**.

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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

1.0-1.5 kg/m<sup>2</sup> in two coats WITHOUT reinforcement

1.9-2.0 kg/m<sup>2</sup> WITH reinforcement

## 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.

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## 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	RESULT
Appearance	-	Fluid Paste
Colour	-	White - Grey - Red Green
Density at +20°C	EN ISO 2811-1	1.45 ± 0,05 g/cm <sup>3</sup>
Solid content	EN ISO 3251	70 ± 2%
pH	UNI EN 8490-4	8 ± 1
Brookfield viscosity at 20°C	UNI EN 8490	16.000 + 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	≥100%
Tensile Strength after 14 Days	ASTM D 2370	≥ 1.60 N/mm <sup>2</sup>

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

SUBSTRATE / PROPERTY	STANDARD	RESULT
Concrete	-	0.69 N/mm <sup>2</sup>
Fibre-cement	-	0.57 N/mm <sup>2</sup>
Bituminous membranes		0.23 N/mm <sup>2</sup>
Adhesion before sun/rain cycles	UNI EN 10686	2.00 N/mm <sup>2</sup>
Adhesion after 25 sun/rain cycles	UNI EN 10686	1.70 N/mm <sup>2</sup>
Frost/thaw resistance	UNI EN 10686	Good after 50 cycles
Water vapour diffusion resistance factor	UNI EN 1931	10,113.50 $\mu$
Water absorption	ASTM D 471	$\leq 7.70$ %

## VOLATILE ORGANIC COMPOUNDS EMISSION

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

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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