



NATURE OF THE PRODUCT

From WINKLER great waterproofing tradition and thanks to the exclusive WINKLERSAFE technology, for the formulation of water-based products with low environmental impact, 2021 has evolved into the FIBER version. Water-based elastomeric fibre reinforced coloured liquid waterproof membrane resistant to ponding water. The product is 100% solvent-free, and therefore is to be considered of almost no environmental impact. Formulated by WINKLER Research & Development laboratories.

2021 FIBER has obtained the important **EC1 PLUS**, which identifies EMICODE certified products: building products with very low emissions of volatile organic compounds (VOCs) and semi-volatile ones.

USE FIELDS

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

2021 FIBER is a product specifically developed for applications on irregular foundations that require excellent coverage and need a thick waterproofing layer that can be applied in a single coat.

Fibres, perfectly balanced with special polymers, make it possible to waterproof surfaces subject to little movements without the need of reinforcing the product. It is suitable for application on concrete, wood, fiber cement, bricks and to fix damaged bituminous membranes.

2021 FIBER is exceptionally resistant to U.V. rays, high and low temperatures and adverse climate conditions.

PREPARATION OF SURFACES

Accurately clean the support to eliminate: dirt, dust, loose materials and foreign or bonding-proof matters. The application must be applied on a dry surface. Even if the product can bear a percentage of humidity in the substratum between 3 and 5%, it is always advisable to check for the presence of hidden humidity in the substratum to avoid phenomenon of vapour tension. Apply WINFIX CONCRETE to improve the adhesion of 2021 FIBER on dusty surfaces.

RECOMMENDATIONS

No additives required.

Do not use if the container is damaged.

Do not add water and/or solvents.

WARNINGS

In case 2021 FIBER should be applied on bituminous membranes, the modified membrane must have undergone at least 180 days of oxidization before to applying the product. The product must be applied in environmental conditions suitable to guarantee its full drying in the shortest possible time. Therefore do not apply the product on frozen surfaces or subjected to night chill, in presence of elevated night humidity or with rainy weather. Protect the product for 24 hours since it is applied from water, rain and snow. Apply the product at temperatures between +5°C and +35°C.

APPLICATION

2021 FIBER can be applied with brush, roller or spatula. You can also apply a single coat if you care for uniformly covering the surface. When using a roller, we recommend rolling it inside the bucket in order to take up a good quantity of product and better wet the tool.

For corners reinforcement and sealing, it's advisable applying BC SEAL BAND, self-adhesive band covered with non-woven. For waterproofing and sealing around roof penetrations such as drain, ventilation pipes, other roof penetrations or around plumbing pipes and drains, use BC SEAL PAD, self-adhesive butyl square pad, together with BC SEAL BAND.

SURFACES WITH JOINTS

Seal joints up to 1cm wide, using **WINJOINT BAND** (waterproof elastic band, made of rubber and polyester fabric, suitable for waterproofing joints), as described below:

- After making new joints or restoring the existing ones, apply **2021 FIBER** laterally to the joint and for a width that is larger than the joint cover.
- Lay the joint cover placing the perforated side strip on the area already treated with **2021 FIBER**, that must be wet yet.
- Once dried, soak it with a last coat of **2021 FIBER**.

Seal joints more than 1cm in wide, using the system composed by **WINJOINT FOAM** (compressible polyethylene foam backer rod), **WINJOINT SEAL** (polyurethane sealant) and **WINJOINT BAND** as described below:

- After making new joints or restoring the existing ones, enter **WINJOINT FOAM** inside the joint to the desired depth and then extrude **WINJOINT SEAL** through the entire length of the joint. Once the sealant has dried, lay **WINJOINT BAND** as previously described.

CONSUMPTION

1.6 kg/m² in two coats.

PACKAGING

5-10-20 kg pails.

1kg buckets

Colours: white-grey-red-green.

STORAGE

The product in its undamaged packaging can be stored for 12 months. Please store it at temperatures between +5°C and +35°C. No frost-proof.

SAFETY STANDARDS

CAUTION

For information about safety standards, users must refer to the most recent Safety Sheet drafted in compliance with currently applicable Safety Standards, containing physical, toxicological and other data about the product used.

ECOLOGY

Dispose of the product and/or empty packaging in appropriate sites. For further information about waste disposal, see the most recent Safety Sheet.

TECHNICAL DATA (average values)

PRODUCT FOR PROFESSIONALS

Appearance:	Medium density paste
Colour:	White/grey/red/green
Density at 20°C (g/cm ³):	1.45 ± 0.05
Dry residues (%):	71 ± 2
Ph:	8 ± 1
Brookfield viscosity cPs:	36,000 ± 1000

OPERATIONAL PRODUCT PERFORMANCES

Resistance to atmospheric agents:	Good
Elongation after 14 days (ASTM D2370):	≥50%
Resistance to Breaking after 14 days (ASTM D2370):	≥ 1.67 N/mm ²
Adhesion test on substrate. UNI EN 1348 standard dynamometer (after 14 days)	
Concrete	0.70 N/mm ²
Fibre-cement	0.61 N/mm ²
Adhesion before sun rain cycles (UNI10686)	2.0 N/mm ²
Adhesion after 25 cycles sun rain (UNI10686)	1.7 N/mm ²
Frost/thaw proofing: (UNI 10686)	Good after 50 cycles
Resistance factor to water steam diffusion (UNI EN 1931)	10,113.50 μ
Water absorption (ASTM D 471)	≤ 8.0 %

Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (μ/m ³)
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

Product in compliance with Directive 2003/53/EC

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.