



DESCRIPTION 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, has been created the new 2021. Water-based elastomeric coloured liquid waterproof membrane resistant to ponding water created with polymers and copolymers of the highest quality. The product is 100% solvent-free, and therefore is to be considered of almost no environmental impact. Formulated by WINKLER Research & Development laboratories.

2021 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 is applicable on roofs, fibre-concrete slabs, wood panels or OSB, balconies and terraces subject to occasional pedestrian traffic, concrete canopy, old bitumen membranes and attics. The product can be applied on concrete, wood, fibre-cement, brickwork, to fix damaged bitumen membranes and expanded polyurethane. 2021 has got an exceptional resistance to U.V. rays, to high and low temperatures and even towards critical weather conditions.

SURFACE PREPARATION

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 on dusty surfaces.

APPLICATION

The product is ready to use and can be applied with roller, brush, large paintbrush and airless gun. Apply the product in two coats (wait at least 24 hours between the first and second coat) to obtain a homogeneous and ideal thickness for waterproofing.

In the case of large surfaces or supports subject to movement, it will be necessary to apply 2021 in two coats with WINTECHNO MAT interposed, as described below: Apply 2021 (for approximately 2/3 of the material to be used) on the support to be treated evenly. Place WINTECHNO MAT and drown it out of sight with the help of light pressure from the roller and wait for it to dry completely (24 hours). Then apply the second coat of 2021 until the consumption indicated in this technical data sheet is obtained.

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.

RECOMENDATIONS

- Do not add additives
- Do not use if the container is damaged
- Do not add water e/or solvents

WARNING

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° and +35 °C.

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** 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**, that must be wet yet. Once dried, soak it with a last coat of **2021**.

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 – 1.5 kg/m² in two coats.

2 kg/m² in two coats with WINTECHNO MAT interposed.

PACKAGING

1 kg cans - 5-10-20 kg pails.

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 INSTRUCTIONS

PRECAUTIONS

For information about safety, user must refer to the most recent Safety Data Sheet, edited in accordance with the regulations in force, which contains physical, toxic and other data about the product in use.

ECOLOGY

Do not throughout the product and/or empty containers in the environment. Consult the most recent Safety Data Sheet for further information about disposals.

TECHNICAL FEATURES (average values)

PRODUCT FEATURES

FEATURES	STANDARD	RESULTS
Look:	-	fluid paste
Colour:	-	White/grey/red/green
Density at 20°C:	EN ISO 2811-1	1.45 ± 0.05 g/cm ³
Solid content:	EN ISO 3251	70 ± 2
PH:	UNI 8490-4	8 ± 1
cPs brookfield viscosity:	UNI EN 8490	16000 ± 1000

OPERATIONAL PRODUCT PERFORMANCES

FEATURES	STANDARD	RESULTS
Operating temperatures		From -20°C to +80°C
Resistance to atmospheric agents:	-	Good
Elongation after 14 days:	ASTM D2370	≥100%
Resistance to Breaking after 14 days	ASTM D2370	≥ 1.60 N/mm ²

Adhesion on Concrete (after 14 days):	UNI EN 1348	0.69 N/mm ²
Adhesion on fibre-cement (after 14 days):	UNI EN 1348	0.57 N/mm ²
Adhesion on bituminous membrane (after 14 days):	UNI EN 1348	0.23 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	≤ 7.70 %

Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (μg/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_02.

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 up-date said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.