

PRODUCT DATA SHEET

2021 ANTI-SKID

ITEM CODE: SEE DN
ISSUE DATE: 27/05/2022
REVIEW: NO. 3

DESCRIPTION OF THE PRODUCT

Water-based, high-performance liquid coating formulated with premium polymers and copolymers. Provides durable waterproofing and is resistant to standing water. The formulation is completely free of organic solvents. Formulated by WINKLER Research & Development Laboratories.

FIELDS OF USE

2021 ANTI-SKID is a high-performance protective coating specifically designed for bicycle lanes. It is suitable for application on asphalt pavements, concrete, screeds, and cement-based substrates. The product provides excellent resistance to UV radiation, extreme temperatures, and harsh weather conditions.

Modified with specially graded fillers, **2021 ANTI-SKID** delivers effective anti-slip properties, improving surface safety while ensuring long-lasting durability.

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, friable parts, and any foreign or non-adherent substances. Application must be carried out on a dry surface. Although the product can tolerate a substrate moisture content between 3% and 5%, it is recommended to verify the absence of hidden moisture in order to prevent vapour pressure phenomena. Asphalt pavements must be compact, cohesive, and exhibit adequate mechanical strength.

RECOMMENDATIONS

Do not add any additives.

Do not use the product if the packaging is damaged.

Do not add water unless specifically required for the intended application.

Mix the product thoroughly before use.

WARNINGS

Apply the product under environmental conditions that allow complete and rapid drying. Do not apply **2021 ANTI-SKID** on frozen surfaces, during night frost, in conditions of high nighttime humidity, or when rain is imminent.

The coating must be protected from water, rain, and snow for at least 24 hours after application. Application must be carried out at temperatures between +5°C and +35°C.

PRODUCT DATA SHEET

APPLICATION

The product is ready for use. After brief mixing at low speed, it can be applied using a roller, brush, or airless spray equipment.

CONSUMPTION

0.6 – 0.8 kg/m²

PACKAGING

5-10-20 kg buckets

STORAGE

The product in its original and undamaged packaging, and kept in a dry, protected place, has a shelf life of 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).

PRODUCT DATA SHEET

TECHNICAL FEATURES (average value)

FEATURES	STANDARD	RESULTS
Appearance	-	Liquid paste
Colour	-	White (RAL- like 9016)- Yellow (RAL-like 1003) – Red (RAL-like 3000) -Grey – Beige (RAL-like 1019) – Green
Density at +20°C	UNI EN ISO 2811-1	1.6 ± 0.05 g/cm ³
Solid content	UNI EN 8490-4	78 ± 2 %
Brookfield viscosity at 20°C	UNI EN 8490	15.000 ± 3.000 cPs

PRODUCT PERFORMANCES IN SERVICE

FEATURES	STANDARD	RESULTS
Resistance to atmospheric agents		Good
Elongation after 14 days	ASTM D 2370	≥ 80%
Tensile strength after 14 days	ASTM D 2370	≥ 1.90 N/mm ²

ADHESION TO SUBSTRATE (after 14 days) Tested according to UNI EN 1348 using a standard dynamometer

SUBSTRATE TYPE	RESULTS
Concrete	0.69 N/mm ²
Fibre cement	0.57 N/mm ²
Bituminous membrane	0.23 N/mm ²

DURABILITY AND WEATHERING PERFORMANCE ACCORDING TO UNI 10686

FEATURES	RESULTS
Adhesion before sun/rain cycles	2.0 N/mm ²
Adhesion after 25 sun/rain cycles	1.7 N/mm ²
Frost/thaw resistance	Good after 50 cycles

PRODUCT DATA SHEET

MOISTURE AND WATER RESISTANCE PROPERTIES

FEATURES	STANDARD	RESULTS
Water vapour diffusion resistance factor	UNI EN 1931	$\mu = 10.113,50$
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	≤ 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.

PRODUCT FOR PROFESSIONAL USE ONLY

DISCLAIMER AND LEGAL NOTICE - WINKLER

The information and instructions contained in this Technical Data Sheet are prepared on the basis of WINKLER's best technical and application knowledge and are provided for guidance only. However, since WINKLER cannot directly control site conditions or the execution of works, these indications are in no way binding on WINKLER.

The data provided do not exempt the purchaser from the responsibility of verifying, through practical tests and comprehensive applications, the suitability of the product for the intended use and of determining whether it is appropriate for the desired application; the user assumes all responsibility arising from its use. The customer is also responsible for verifying that this Technical Data Sheet is valid for the batch of product of interest and that it has not been superseded by later editions. The updated Technical Data Sheet is available on WINKLER's official website.

The contents of this Technical Data Sheet may be reproduced in other project documents, but the resulting document may under no circumstances replace or supplement the Technical Data Sheet in force at the time of application of the WINKLER product. Any alteration of the text or conditions contained in this Technical Data Sheet or derived from it releases WINKLER from any liability. WINKLER reserves the right to make technical changes of any kind to its products and/or Technical Data Sheets without notice. This revision cancels and replaces all previous ones.