PRODUCT DATA SHEET

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CE

ONE® FLOORING

COMPLIANT WITH EU NORM
UNI EN 13813
SR RWA10-IR4-B2,0
SCREEDS BASED ON SYNTHETIC RESYN

GEV-EMICODE EC 1 PLUS very low emission

DESCRIPTION OF THE PRODUCT

One-component, coloured, liquid-applied waterproofing membrane, designed for horizontal surfaces subjected to vehicular traffic or other high mechanical stress.
The product is UV-resistant and provides reliable waterproofing along with protection against abrasion, heavy traffic, and other mechanical wear.
It is specially formulated for indoor and outdoor application under extreme conditions, including thermal shock (temperature range 0°C to +45°C) and on damp or wet substrates.
Formulated by WINKLER Research & Development Laboratories.

FIELDS OF USE

ONE® FLOORING is particularly recommended for waterproofing and protecting floors and decks subjected to high mechanical stress, such as garages and car parks, storage areas and warehouses, and industrial flooring.

It is suitable for application on substrates including concrete, ceramic tiles, and other floors or decks affected by permanent excess dampness, as well as on cementitious screeds that are not fully cured (minimum 7 days at +15°C).

Once fully cured, the product is resistant to high-level vehicular traffic. Its special formulation also ensures adhesion on tarmac, provided a minimum mechanical resistance of 0.5 N/mm^2 is achieved.

After application, the product becomes rain-resistant within a few hours, in accordance with the timetable provided below.

Rainproof Times

Application Temperature	Rainproofed in
+20°C	2 h
+15°C	2 h 30 min
+10°C	3 h
+5°C	4 h
0°C	5 h

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SURFACE PREPARATION

Thoroughly clean the substrate, removing dust, loose or friable material, and any foreign or non-adherent substances. The substrate must be sound and cohesive, with a minimum adhesion strength of 1.5 MPa.

If oil stains are present on concrete substrates, approximately 2 mm of the contaminated surface must be mechanically removed. All residual dust must then be completely removed using a vacuum cleaner.

Immediately after cleaning, apply **ONE® PRIMER**, a two-component epoxy adhesion promoter, using a roller or flat brush. While the primer is still fresh, broadcast quartz sand with a grain size of 0.1-0.5 mm at a rate of 400-500 g/m^2.
Allow the primer to cure for a minimum of 24 hours before removing any loose sand and proceeding with the restoration of missing volumes, if required.

For surface repairs with an area of up to a maximum of 1 m^2, apply **PRE-ONE®**, a fast-setting thixotropic mortar, using a trowel or smooth putty knife. If the area to be repaired exceeds 1 m^2 (up to a maximum of 2 m^2) and/ or the repaired depth exceeds 10 mm, it is strongly recommended to apply **PRE-ONE®** in two coats. Any cracks that may appear after the first coat be repaired with the second coat.

PRE-ONE® must be applied and allowed to cure at temperatures between 0°c and +45°C. Once cured, the treated surface must be sanded and all dust removed before applying any subsequent liquid membrane layer. A minimum waiting time of 12 hours at +20°C is required before applying **ONE® FLOORING**. For curing times at different temperatures, refer to the **PRE-ONE®** Technical Data Sheet.

For repairs on surfaces larger than 2 m^2, the procedures described below must be followed, observing an application and curing temperature range between +5°C and +30°C.

For repairs with a thickness of up to 3 mm, apply **UNIBAR FORMULA**, a multifunctional two-component resin, onto a clean and dry substrate using a roller of flat brush, in accordance with the instructions provided in the latest Technical Data Sheet. Allow the product to set for several minutes and up to a maximum of 24 hours before restoring the repaired areas with **UNIBAR SL**, a self-levelling tri-composite epoxy screed (SC2).
ONE® FLOORING may be applied after a minimum of 24 hours.

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For repairs with a thickness greater than 3 mm, apply **UNIBAR FORMULA** using a roller or flat brush, following the instructions in the relevant Technical Data Sheet. After allowing the product to set for several minutes and up to a maximum of 24 hours, restore the repaired areas using **UNIBAR SCREED**, a high-resistance synthetic tri-composite epoxy mortar with solvent-free fillers (SC1). **ONE® FLOORING** may be applied after a minimum of 24 hours.

If oil stains are present on tarmac substrates, proceed as follows: mechanically remove at least 4-5 cm of the contaminated tarmac surface. Remove all dust using a vacuum cleaner. Restore the resulting cavities with **TECHNOASFALT**, a cold asphalt conglomerate made from modified bitumen. After proper compaction, proceed with the application of **ONE® FLOORING**.

RECCOMENDATIONS

Do not dilute with water or solvents.
Do not use the product if the packaging is damaged.

WARNINGS

Use only tools that are clean and dry. The product containers must be closed immediately after use. High or low temperatures may affect the viscosity of the product. To ensure optimal workability, it is recommended to store **ONE® FLOORING** for at least 24 hours prior to use at temperatures close to +20°C.

APPLICATION

Before use, mix the product quickly, either manually or with a low-speed drill, until a homogeneous mixture is obtained. **ONE® FLOORING** is ready for use and does not require a primer or protective top coat.

Apply **ONE® FLOORING** using a short-haired, roller a smooth metal trowel, or an airless spray gun (LARIUS- THOR series). For airless application, please contact our technical support for further information.

Apply the first coat with a short-haired roller at a consumption rate of 350-400 g/m^2.
After the waiting time indicated in the timetable has elapsed, apply the second coat, using either a roller or a metal trowel, at a consumption rate of 1.1-1.2 kg/m^2.

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The use of spiked roller after application of the second coat, before curing, is always recommended.

Follow the Temperature Application Time Table to ensure sufficient time between coats when applying the product without reinforcement, and to allow proper curing after the final application.

To achieve the finest finish, apply the final coat using a short-haired roller in both longitudinal and transversal strokes, at a consumption rate of 300 g/m^2. This procedure ensures an even distribution of the filler, resulting in the characteristic surface texture of the finishing layer.

CURING TEMPERATURE TIME TABLE
APPLICATION WITHOUT REINFORCEMENT

Application Temperature	Application of 2nd coat	Application of Finishing Layer	Pedestrian Traffic-Ready (After Last Coat)	Wheeled Traffic-Ready (After Last Coat)
+ 20 °C	5 h	10 h	24 h	48 h
+ 15 °C	5 h	14 h	24 h	48 h
+ 10 °C	6 h	24 h	24 h	72 h
+ 5 °C	7 h	36 h	48 h	72 h
0 °C	8 h	48 h	48 h	72 h

In the case of application on substrates subject to movement, such as tiled foundations, apply the product as described below.

After thoroughly cleaning the surface to be treated, level and regularize the joints by applying **ONE® VERTICAL** at a consumption rate of 300 g/m^2, using a smooth metal trowel.

After a minimum of 8 hours at +20°C (for curing times at different temperatures, refer to the **ONE® VERTICAL** Technical Data Sheet), apply **ONE® FLOORING** at a consumption rate of 700-900 g/m^2, depending on the porosity of the substrate. During application, it is recommended to cross the application strokes to evenly distribute the product.

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Immediately lay **ONE® MAT**, a 90 g/m² non-woven reinforcement, using a spiked roller or a smooth putty knife, taking care not to apply excessive pressure. Within a short time, the reinforcement will be fully embedded in the product without the need for additional steps.

After the waiting time required for application of the second coat (refer to the temperature table), apply an additional 600-800 g/m² of product. As with the first coat, it is recommended to cross the application strokes during application of the second coat to ensure uniform distribution.

Wait for the time indicated in the temperature time table, then apply the finishing coat using a short-haired roller at a consumption rate of 300 g/m², applying the product in both longitudinal and transversal directions.

CURING TEMPERATURE TABLE – APPLICATION WITH REINFORCEMENT

Application Temperature	Application of 2nd coat	Application of Finishing Layer	Pedestrian Traffic-Ready (After Last Coat)	Wheeled Traffic-Ready (After Last Coat)
+ 20 °C	After 12 h	10 h	24 h	48 h
+ 15 °C	After 12 h	14 h	24 h	48 h
+ 10 °C	After 18 h	24 h	24 h	72 h
+ 5 °C	After 24 h	36 h	48 h	72 h
0 °C	After 24 h	48 h	48 h	72 h

Full mechanical resistance is achieved 7 days after application of the last coat.

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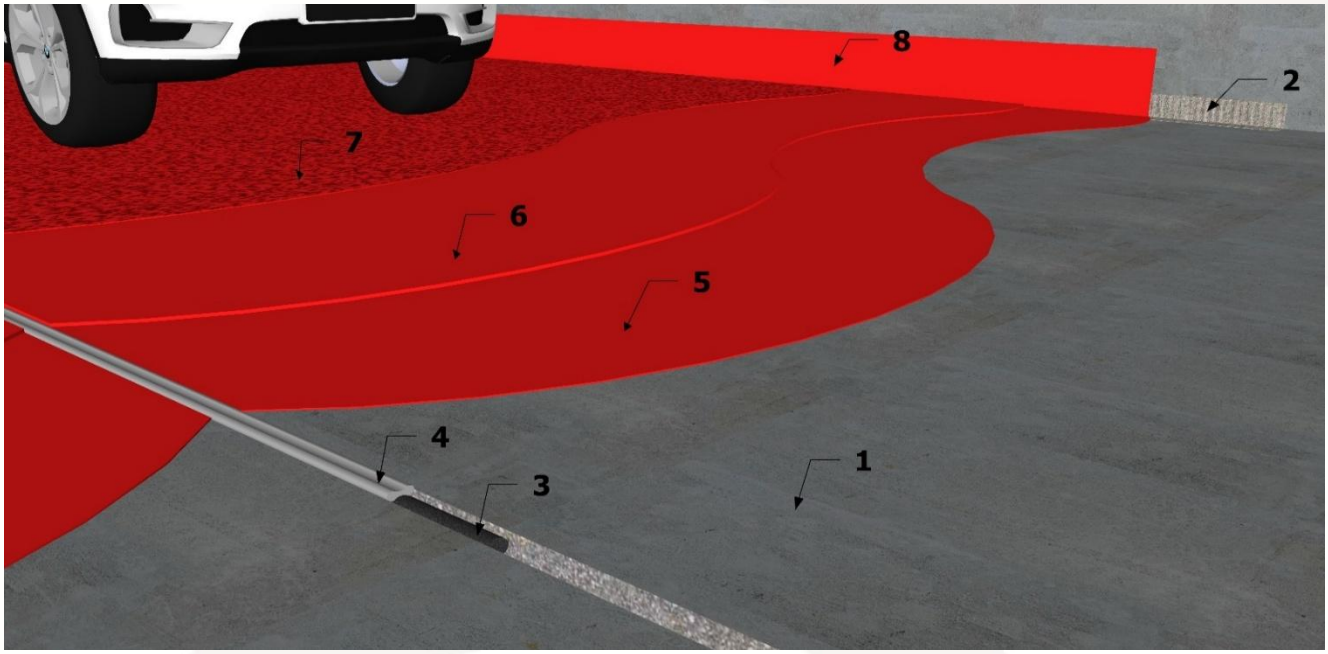
PRODUCT DATA SHEET



LEGEND:

1. Structural substrate
2. **BC SEAL BAND**, self-adhesive band
3. **WINJOINT FOAM**, compressible cord
4. **WINJOINT SEAL**, polyurethane sealant
5. First coat of **ONE® FLOORING**
6. Second coat of **ONE® FLOORING**
7. Finishing layer of **ONE® FLOORING**
8. **ONE® VERTICAL**

SURFACES WITH JOINTS

After forming new joints or restoring existing ones, use the system composed of **WINJOINT FOAM** (compressible polyethylene foam backer rod) and **WINJOINT SEAL** (polyurethane sealant).

CONSUMPTION

1.7 -1.9 kg/m^2 without reinforcement

1.8-1.9 kg/m2 with **ONE® MAT** reinforcement

winkler® Advanced Building Material

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PACKAGING
10-20 kg buckets

CLEANING AND MAINTENACE
For fresh product, clean tools with denatured ethyl alcohol.
For dried product, remove mechanically.
If it becomes necessary to clean **ONE® FLOORING** surface over time, use a 1:1 solution of water and denatured alcohol.

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	STANDARD	RESULT
Appearance	-	Liquid paste
Colour	-	Light grey - Grey – Red – Green White and Yellow for signage
Specific weight at 20°C	UNI EN ISO 2811-1	1,50 ± 0,05 g/cm³
Solid content	UNI EN ISO 3251	98 ±1 %
Brookfield viscosity at 20°C	UNI EN 8490	6.500 ± 500 cPs

PERFORMANCE DATA OF HARDENED PRODUCT
ACCORDING TO UNI EN 13813

FEATURES	STANDARD	RESULT
Wear resistance (rotating loads)	UNI EN 13892-5	≤ 10 cm³
Impact resistance	UNI EN ISO 6272	≥ 20 N·m
Adhesion strength	UNI EN 13892-8	≥ 2.0 N/mm²
Reaction to fire	UNI EN 13501-1	Cfl-s1

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PERFORMANCE DATA OF HARDENED PRODUCT

FEATURES	STANDARD	RESULT
Operating temperature	-	-30°C to + 80°C
Weathering resistance	-	Excellent
Resistance to UV rays	-	Excellent
Low temperature flexibility (-26°C) (before accelerated ageing)	ASTM D 522	No break
Low temperature flexibility (-26°C) (after 1.000 hrs accelerated ageing) (QUV Machine, Accelerated Weathering Tester, Model QUV/spray)	ASTM D 522 / ASTM D 4798	No break
Tensile strength	ASTM D 2370	1.100 PSI – 7.5 N/mm^2
Elongation at break	ASTM D 2370	52 %
Elongation at break (after 1.000 hrs accelerated ageing)	ASTM D 2370/ ASTM D 4798	41 %
Resistance to negative pressure	UNI EN 8298-8	4 bar
Resistance to positive pressure	UNI EN 1928	6 bar
Water absorption after 24 h	ASTM D 471	≤ 0.1 %
Water absorption after 7 days	ASTM D 471	≤ 0.5 %
Water vapour permeability	UNI EN 1931	SD 1 (>0.5 <1)
Resistance to indentation (Shore D)	ASTM D 2240/ DIN 53505/ISO/R 868	60
Slip/ skid resistance (Pendulum test)	UNI EN 1336-4	Dry substrate: 73 (min. 40 required) Wet substrate: 60 (min. 55 required)

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ADHESION TO SUPPORT
ACCORDING TO UNI EN 1542

ADHESION TO SUPPORT AFTER 14 DAYS	
Concrete[1]	≥ 2,76 N/mm²
Tile[2]	≥ 1,28 N/mm²
Tarmac[3]	≥ 1,80 N/mm²
ADHESION TO SUPPORT AFTER 14 DAYS OF WATER IMMERSION	
Concrete[1]	≥ 2,20 N/mm²
Tile[2]	≥ 1,08 N/mm²
ADHESION TO SUPPORT AFTER 14 DAYS OF SALTED WATER IMMERSION	
Concrete[1]	≥ 2,00 N/mm²
Tile[2]	≥ 1,20 N/mm²
ADHESION TO SUPPORT AFTER 14 DAYS OF pH 2 WATER IMMERSION	
Concrete[1]	≥ 1,84 N/mm²
Tile[2]	≥ 1,22 N/mm²

Metal	≥ 2,0 N/mm²

Notes:

[1] Concrete delamination

[2] Tile break

[3] Tarmac delamination

CHEMICAL PRODUCT RESISTANCE
REFERRING ONLY TO CASUAL CONTACT
UNI EN 8298-4

Oil	Excellent
Gas oil	Excellent
Petrol	Excellent
Ammonia	Excellent
Bleach	Good
Brake fluid	Excellent

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VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION (µg/m³)
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 product complies with the requirements of Directive 2003/53/EC.

PRODUCT FOR PROFESSIONAL USE ONLY

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