

COMPLIANT WITH EU NORM

UNI EN 13813

SR RWA10-IR4-B2,0

SCREEDS BASED ON SYNTHETIC
RESYN

NATURE OF THE PRODUCT

One-component, pigmented, liquid-applied, waterproofing membrane for horizontal surfaces subjected to vehicular traffic or other high-level stress. **ONE FLOORING** is UV resistant providing waterproofing and protection against abrasion, heavy traffic or other mechanical hard-wearing. The product is specially designed to allow its application indoors or outdoors under extreme conditions, such as conditions of thermal shock with temperatures range from 0°C to +45°C and over damp or wet substrates.

FIELDS OF USE

ONE FLOORING is particularly recommended for waterproofing and protecting floors/decks subjected to high levels of stress such as: garages or car parking facilities, storage or warehouses, industrial floorings and substrates as concrete, ceramic tiles or other floors/decks with permanent problems of excess dampness and also not completely cured cementitious screeds (7 days at +15°C). The product, once fully cured, resists to high-level vehicular traffic. Its particular formulation allows adhesion also over tarmac (with minimum mechanical resistance of 0.5 N/mm²).

The product becomes rain-proofed after its application, although not fully cured, according to the Rain-Proof Time Table provided.

Rain-Proof Time Table

+20°C	2 hrs
+15°C	2 hrs 30 min.
+10°C	3 hrs
+5°C	4 hrs
0°C	5 hrs

SURFACE PREPARATION

Clean all substrate surfaces thoroughly to eliminate dirt, dust, and loose materials, any form of oil or grease and foreign or bonding-proof matter. The substrate shall be sound and cohesive with an adhesion strength of at least 1.5 MPa.

If oil stains are present **on concrete** proceed as follow: mechanically remove approximately 2 mm of the substrate surface where oil is present, remove all dust

(with vacuum aspirator). Immediately apply **ONE PRIMER** (two-component epoxy adhesion promoter) with a roller or flat brush and scatter quartz 01-05, (400-500g/m²). Allow **ONE PRIMER** to cure at least 24 hours, before removing dust and restoring volumes.

- When repairing any surface up to maximum of 1m², apply **PRE-ONE** (fast-setting thixotropic mortar), using a trowel or smooth putty knife. If area is larger than 1 m² (max. 2 m²) and/or has more than 1 cm in depth, we strongly recommend applying **PRE-ONE** in 2 coats. Any cracks that may appear in the product after the first coat is cured, can be repaired with the second coat. Apply and cure **PRE-ONE** at temperatures between 0°C and +45°C. Sand the surface treated with **PRE-ONE** and remove the dust, before applying any subsequent layer of liquid membrane. Wait at least 12 hours at +20°C (for other temperatures curing times, please see the technical data sheet of the product) prior to the application of any subsequent layer of **ONE FLOORING**.
- When repairing any surface larger than 2 m² follow the steps below, observing the application and curing temperature range between +5°C to + 30°C.
 - **Up to 3 mm thickness:** on dry and clean substrate, apply **UNIBAR FORMULA** (multifunctional two component resin) with a roller or flat brush, following instructions in the latest product's TDS. Allow the product to set for several minutes up to maximum of 24 hours, before resuming to restore the patches with **UNIBAR SL** (self-levelling tri-composite for screeds, made from epoxy binders and special solvent free fillers (SC2)). Apply **ONE FLOORING** after at least 24 hours.
 - **Over 3 mm thickness:** apply **UNIBAR FORMULA** (multifunctional two component resin) with a roller or flat brush, following instructions in the latest product's TDS. Allow the product to set for several minutes up to maximum of 24 hours, before resuming to restore the patches with **UNIBAR MALTA** (synthetic tri-composite mortar made from epoxy binders and special solvent free high resistance fillers (SC1)). Apply **ONE FLOORING** after at least 24 hours.

If oil stains are present **on tarmac** proceed as follow: mechanically remove at least 4-5 cm of the contaminated tarmac surface, remove all dust (with vacuum aspirator). Restore holes with **TECHNOASFALT** (cold tarmac conglomerate made from modified bitumen). After proper compacting, proceed with the application of **ONE FLOORING**.

APPLICATION

Mix the product quickly (manually or with a low-speed drill) until getting a homogeneous mixture, before using it. **ONE FLOORING** is ready for use and does not need primer or protective top-coat. Apply **ONE FLOORING** with a short-haired roller, smooth trowel, or airless spray gun (**LARIUS – THOR series**), please contact our technical support for information.

Apply the first coat by short-haired roller for a consumption of 350-400g/m². Wait for the time indicated on the temperature table, then apply the second coat, always with roller or metal trowel, for a rate of 1.1-1.2 kg/m².

The use of a spiked roller after the second coat, before it cures, is always recommended.

Follow the Temperature Application Time Table to allow for sufficient time between coats, in case of application without reinforcement, and after the final application for curing.

In order to obtain the finest finish, apply the finish coat of product with a short-haired roller in longitudinal and transversal strokes, for a consumption of 300g/m². This procedure allows to obtain a regular distribution of the charge, in order to get the characteristic surface roughness of the finishing layer.

Curing Temperature Time Table – Application without reinforcement

Application temperature	Application of 2 nd coat	Application of finishing layer	Pedestrian traffic-ready (After last coat)	Wheeled traffic-ready (After last coat)
20°C	5 hrs	10 hrs	24 hrs	48 hrs
15°C	5 hrs	14 hrs	24 hrs	48 hrs
10°C	6 hrs	24 hrs	24 hrs	72 hrs
5°C	7 hrs	36 hrs	48 hrs	72 hrs
0°C	8 hrs	48 hrs	48 hrs	72 hrs

In case of application on substrates subject to movements, such as for example tiled foundations, apply the product as described below:

After carefully cleaning the surface to be treated, regularize the volume of the joints with **ONE VERTICAL** (300g/m²), using a smooth trowel.

After at least 8 hours at +20°C (for other temperatures curing times, please see the technical data sheet of the product), apply **ONE FLOORING**, with a consumption of 700-900g/m², depending on substrate porosity. During application we would recommend crossing the layers to evenly distribute the product.

Immediately lay **ONE MAT**, non-woven 90g/m² reinforcement, by using a spiked roller or a smooth putty knife, but avoiding using too much pressure. In a short time, the reinforcement will be incorporated by the product without further steps.

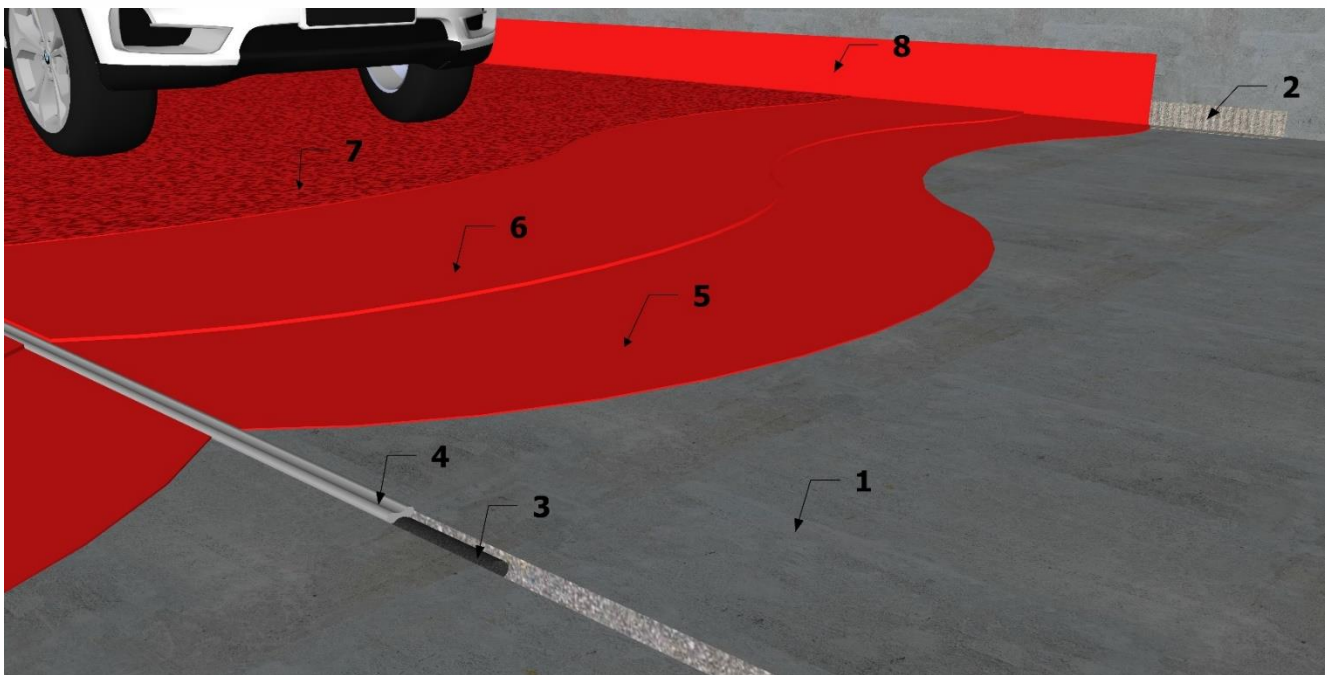
Wait for the time required for the application of the 2nd coat (see temperature table) and apply other **600-800g/m²** of product. As with the first coat, we recommend crossing the layers while applying even the second coat.

Wait for the time indicated in the **temperature time table** and apply the finishing coat with a short-haired roller, and a consumption of **300g/m²**, both longitudinally and transversely.

Curing Temperature Time Table – Application with reinforcement

Application temperature	Application of 2 nd coat	Application of finishing layer	Pedestrian traffic-ready (After last coat)	Wheeled traffic-ready (After last coat)
+20°C	After 12 hrs	10 hrs	24 hrs	48 hrs
+15°C	After 12 hrs	14 hrs	24 hrs	48 hrs
+10°C	After 18 hrs	24 hrs	24 hrs	72 hrs
+5°C	After 24 hrs	36 hrs	48 hrs	72 hrs
0°C	After 24 hrs	48 hrs	48 hrs	72 hrs

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



KEYS:

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

CAUTIONS

Do not use the product if its package is damaged.

The product is ready to use so, DO NOT dilute it with water nor solvents.

Use only clean and dry tools. Close the packages immediately after use. High or low storage temperatures may vary the viscosity of the product. To have optimal workability, we recommend storing **ONE FLOORING**, at least 24 hours before use, at temperatures close to +20°C.

SURFACES WITH JOINTS:

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

TOTAL CONSUMPTION

1.7- 1.9 kg/m² without reinforcement.

1.8 – 1.9 kg/m² with **ONE MAT** in between.

PACKAGING

10 kg – 20kg pails.

TOOL & SURFACE CLEANING

Clean wet product with denatured ethyl alcohol. Remove dry product mechanically.

SURFACE CLEANING

If, with aging and use, a cleaning of the surface of **ONE FLOORING** is needed, use a solution of water and denatured alcohol in a 1: 1 ratio.

COLOURS

Light grey, grey, red, green (white and yellow for signage)

STORAGE

Product can be stored in a dry and sheltered place at temperatures between +5°C and +35°C for 12 months in its complete and undamaged packaging.

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 dispose the product and/or empty containers in the environment. Consult the most recent Safety Data Sheet for further information about disposals.

CHARACTERISTICS DATA OF FRESH PRODUCT

Appearance	Liquid paste
Specific Weight At 20°C (g/cm³)	1.50 ± 0.05
Solid Content (%)	98 ± 1
Brookfield Viscosity At 20°C (CPS)	6500 ± 500

PERFORMANCE DATA OF HARDENED PRODUCT ACCORDING TO UNI EN 13813

Wear resistance due to rotating loads (UNI EN 13892-5)	≤ 10cm ³
Impact resistance (UNI EN ISO 6272)	≥ 20 N.m
Adhesion strength (UNI EN 13892-8)	≥ 2.0 N/mm ²
Fire reaction (UNI EN 13501-1)	C _{FL} - s1

PERFORMANCE DATA OF HARDENED PRODUCT

Operating temperature	From -30°C to +80°C
Resistance to atmospheric agents	Excellent
Resistance To UV rays	Excellent
Flexibility at low temperatures (ASTM D 522) before accelerated ageing	Temperature: -26°C NO BREAK
Flexibility at low temperatures (ASTM D 522) after 1000 hrs of accelerated ageing (ASTM D 4798) QUV Machine: Accelerate Weathering Tester. Model QUV/spray	Temperature: -26°C NO BREAK
Tensile strength (ASTM D 2370)	1100 psi - 7.5 n/mm ²
Elongation at breaking point (ASTM D 2370)	52%
Elongation at Breaking point after 1000 hrs of accelerated ageing	41%
Resistance to negative pressure (UNI EN 8298-8)	4 bars
Resistance to positive pressure (UNI EN 1928)	6 bars
Water absorption (ASTM D 471) at 24 hrs (%)	< 0.1
Water absorption (ASTM D 471) at 7 days (%)	< 0.5
Water vapour permeability classification (UNI EN 1931)	Sd 1 (>0.5 <1)

Resistance to indentation carried out with shore d durometer (ASTM d 2240/DIN 53505/ISO/R 868)	60
Resistance to slipping/skidding of a surface: UNI EN 13036-4 Pendulum method	Dry substrate: 73 - 40 required Wet substrate: 60 - 55 required

ADHESION TO THE SUBSTRATE (UNI EN 1542)

ADHESION TO THE SUBSTRATE (N/mm²) AFTER 14 days	
Adhesion To Concrete Substrate ¹	≥ 2.76
Adhesion To Tile Substrate ²	≥ 1.28
Adhesion To Tarmac Substrate ³	≥ 1.8
ADHESION TO THE SUBSTRATE (N/mm²) AFTER IMMERSION IN WATER AFTER 14 days	
Adhesion To Concrete Substrate ¹	≥ 2.20
Adhesion To Tile Substrate ²	≥ 1.08
ADHESION TO THE SUBSTRATE (N/mm²) AFTER IMMERSION IN SALIN WATER AFTER 14 days	
Adhesion To Concrete Substrate ¹	≥ 2.00
Adhesion To Tile Substrate ²	≥ 1.20
ADHESION TO THE SUBSTRATE (N/mm²) AFTER IMMERSION IN pH 2 WATER AFTER 14 days	
Adhesion To Concrete Substrate ¹	≥ 1.84
Adhesion To Tile Substrate ²	≥ 1.22
Adhesion to metal (N/mm ²)	≥ 2.00

Note:

¹ Concrete delamination

² Tile breaking

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

PRODUCT FOR PROFESSIONALS ONLY**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

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.