

COMPLIANT WITH EU NORM

UNI EN 13813

SR RWA10-IR4-B2,0-F<sub>FL</sub>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, also not completely cured cementitious screeds (7 days at 15°C). Its particular formulation, allows adhesion also over tarmac (with minimum mechanical resistance of 0.5 N/mm<sup>2</sup>).

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 a tear-resistance 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 broadcast quartz 01-05 onto the wet primed surface. Allow **ONE PRIMER** to cure least 24 hours.

- When repairing any surface up to maximum of 2 m<sup>2</sup>, apply **PRE-ONE** (fast-setting thixotropic mortar), using a trowel or smooth putty knife. Apply and cure **PRE-ONE** at temperatures between 0°C and +45°C. Follow instructions contained in the most recent product's TDS. If area is larger than 1 m<sup>2</sup> (max. 2 m<sup>2</sup>) and/or has more than 1 cm in depth we strongly recommend applying **PRE-ONE** in 2 coats, allowing each coat for proper curing (min. 12 h.) prior to the application of any subsequent layer of material. Any cracks that may appear in the product after the first coat is cured, can be repaired with the second coat. Allow second coat to cure for at least 12 hours.
- When repairing any surface larger than 2 m<sup>2</sup> follow the steps below, observing the application and curing temperature range between + 5°C to + 30°C.
  - Up to 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 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 before using it. **ONE FLOORING** is ready for use and does not need primer or protective topcoat. 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/m<sup>2</sup>.

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/m<sup>2</sup>.

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/m<sup>2</sup>. 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 <sup>nd</sup> 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/m<sup>2</sup>), using a smooth trowel.

After at least 8 hours, apply **ONE FLOORING** (with a consumption of 400g/m<sup>2</sup>), evenly.

Immediately lay **ONE MAT**, non-woven 90g/m<sup>2</sup> reinforcement, by using a spiked roller and soak it with other 500-600g/m<sup>2</sup> of **ONE FLOORING**.

Wait for the time required for the application of the second coat (see temperature table for application with reinforcement), and apply 600-700g/m<sup>2</sup> of product.

We always recommend the use of spiked roller after the application of the second coat.

Wait for the time indicated in the temperature table and apply the finishing coat with a short-haired roller, with a consumption of 300g/m<sup>2</sup> in longitudinal and transverse direction.

## Curing Temperature Time Table – Application with reinforcement

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

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

### CAUTIONS

The product is ready for use and must not be diluted with water or solvent.

### SURFACES WITH JOINTS:

Joints shall always be observed and waterproofed with a suitable accessory, according to the situation. **Please contact our technical support for information.**

### TOTAL CONSUMPTION

1.7- 1.9 kg/m<sup>2</sup> without reinforcement

1.8 – 1.9 kg/m<sup>2</sup> with ONE MAT

### PACKAGING

10 kg – 20kg pails.

### TOOL & SURFACE CLEANING

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

For surface cleaning use a solution of water and denatured alcohol in 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 REGULATIONS

## PRECAUTIONS

For information regarding safety regulations, the user must refer to the most recent Safety Sheet, issued in compliance with the regulations in force, containing the physical and toxicological information and other information related to the product being used.

## ECOLOGY

Do not dispose of the product and/or empty containers into the environment. Consult the most recent Safety Sheet for further information regarding any waste disposal.

### CHARACTERISTICS DATA OF FRESH PRODUCT

<b>Appearance</b>	Liquid paste
<b>Specific Weight At 20°C (g/cm<sup>3</sup>)</b>	1.50 ± 0.05
<b>Solid Content (%)</b>	98 ± 1
<b>Brookfield Viscosity At 20°C (CPS)</b>	6500 ± 200

### PERFORMANCE DATA OF HARDENED PRODUCT ACCORDING TO UNI EN 13813

Wear resistance due to rotating loads (UNI EN 13892-5)	≤ 10cm <sup>3</sup>
Impact resistance (UNI EN ISO 6272)	≥ 20 N.m
Adhesion strength (UNI EN 13892-8)	≥ 2.0 N/mm <sup>2</sup>
Fire reaction (UNI EN 13501-1)	F <sub>FL</sub>

### PERFORMANCE DATA OF HARDENED PRODUCT

<b>Operating temperature</b>	From -50°C to +80°C
<b>Resistance to atmospheric agents</b>	Excellent
<b>Resistance To UV rays</b>	Excellent
<b>Flexibility at low temperatures (ASTM D 522) before accelerated ageing</b>	Temperature: -26°C NO BREAK
<b>Flexibility at low temperatures (ASTM D 522) after 1000 hrs of accelerated ageing (ASTM D 4798) QUV Machine: Accelerate Weathering Tester. Model QUV/spray</b>	Temperature: -26°C NO BREAK
<b>Tensile strength (ASTM D 2370)</b>	1100 psi - 7.5 n/mm <sup>2</sup>
<b>Elongation at breaking point (ASTM D 2370)</b>	52%
<b>Elongation at Breaking point after 1000 hrs of accelerated ageing</b>	41%

Resistance to counter-pressure	4 bars
Resistance to positive pressure	6 bars
Water absorption (ASTM D 471) at 24 hrs (%)	< 0.1
Water absorption (ASTM D 471) at 7 days (%)	< 0.5
Permeability classification	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 BASE**  
**STANDARDISED DYNAMOMETER UNI EN 1348-2000**

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

**Note:**

<sup>1</sup> Concrete delamination

<sup>2</sup> Tile breaking

<sup>3</sup> Tarmac delamination

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

<b>OIL</b>	<b>EXCELLENT</b>
<b>GAS OIL</b>	<b>EXCELLENT</b>
<b>PETROL</b>	<b>EXCELLENT</b>
<b>AMMONIA</b>	<b>EXCELLENT</b>
<b>BLEACH</b>	<b>GOOD</b>
<b>BRAKE FLUID</b>	<b>EXCELLENT</b>

**PRODUCT FOR PROFESSIONALS ONLY****Volatile Organic Compounds Emission**

Parameter	Max. allowed concentration ( $\mu$ /m <sup>3</sup> )
TVOC after 3 days	$\leq 750$
TVOC after 28 days	$\leq 60$

Test performed by the EUROFINIS institute according to EN 16516, ISO 16000-3-6-9-11 and ASTM D5116-10, Test report n. 392-2017-00404102\_G\_EN

Product complies with requirements of the Directive 2003/53/CE

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.