

## PRODUCT NATURE

Single component pigmented liquid applied waterproofing membrane for horizontal surfaces subjected to vehicular traffic or other high-level stress. **ONE FLOORING** is U.V. 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

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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 **WINTECHNO MAT**, non-woven 70g/m<sup>2</sup> reinforcement, 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

The technical sheet is issued on the basis of our best practical technical expertise, and is purely indicative. Not being able however to intervene directly in the conditions of work sites and the execution of works, this represents general indications that are not binding for **WINKLER**. The information provided does not mean that the customer is exempt from their responsibility to personally test our products regarding their suitability for the intended use.

The customer is also required to check that this technical data sheet is valid for the product batch of interest to them and is not superseded as in the case of replacement by subsequent editions. If you have any queries first contact our Technical Office. **WINKLER** reserves the right to make technical changes of any kind without any prior warning.

This revision cancels and replaces any other previous revision.



# ONE FLOORING

Item Code. see DN

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**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 WINTECHNO 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.

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## CHARACTERISTICS DATA OF FRESH PRODUCT

<b>Appearance</b>	Liquid paste
<b>Colours</b>	Light grey, grey, red, green (white and yellow for signage)
<b>Specific Weight At 20°C (g/cm<sup>3</sup>)</b>	1.50 ± 0.05
<b>Dry Residue (%)</b>	98 ± 1
<b>Brookfield Viscosity At 20°C (CPS)</b>	6500 ± 200

## 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 U.V rays.</b>	Excellent
<b>Flexibility at low temperatures (ASTM D 522) before accelerated weathering</b>	
<b>Temperature (°C)</b>	<b>Break (yes/no)</b>
-26	No
<b>Flexibility at low temperatures (ASTM D 522) after 1000 hrs of accelerated weathering (ASTM D 4798) QUV Machine: Accelerate Weathering Tester. Model QUV/spray</b>	
<b>Temperature (°C)</b>	<b>Break (yes/no)</b>
-26	No
<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 weathering</b>	41%
<b>Resistance to negative counter-thrust</b>	4 bars
<b>Resistance to positive thrust</b>	6 bars
<b>Water absorption (ASTM D 471) at 24 hrs (%)</b>	< 0.1
<b>Water absorption (ASTM D 471) at 7 days (%)</b>	< 0.5

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<b>Permeability classification</b>	Sd 1 (>0.5 <1)
<b>Abrasion resistance (TABER)</b> Cs 17 grinding wheel weight 1000g (X 2) x 1000 rotations	Weight loss in % = 0.05
<b>Resistance to indentation carried out with shore d durometer (ASTM d 2240/DIN 53505/ISO/R 868)</b>	60
<b>Resistance to slipping/skidding of a surface:</b> UNI EN 13036-4 Pendulum method	Dry base: 73 - 40 required Wet base: 60 - 55 required
<b>Impact resistance ASTM D2794</b> ISO 6272-1 ISO 6272-2	Excellent

## ADHESION TO BASE STANDARDISED DYNAMOMETER UNI EN 1348-2000

<b>ADHESION TO THE BASE (N/mm<sup>2</sup>) At 14 days</b>	
<b>Adhesion To Concrete Base<sup>1</sup></b>	≥ 2.76
<b>Adhesion To Tile Base<sup>2</sup></b>	≥ 1.28
<b>Adhesion To Tarmac Base<sup>3</sup></b>	≥ 1.8
<b>ADHESION TO BASE (N/mm<sup>2</sup>) AFTER IMMERSION IN WATER AT 14days</b>	
<b>Adhesion To Concrete Base<sup>1</sup></b>	≥ 2.20
<b>Adhesion To Tile Base<sup>2</sup></b>	≥ 1.08
<b>Adhesion to base (n/mm<sup>2</sup>) after immersion in saline water at 14days</b>	
<b>Adhesion to concrete base<sup>1</sup></b>	≥ 2.00
<b>Adhesion to tile base<sup>2</sup></b>	≥ 1.20
<b>Adhesion to base (n/mm<sup>2</sup>) after immersion in pH 2 water at 14days</b>	

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<b>Adhesion to concrete base<sup>1</sup></b>	≥ 1.84
<b>Adhesion to tile base<sup>2</sup></b>	≥ 1.22
<b>Adhesion to metal (N/mm<sup>2</sup>)</b>	≥ 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>

**PRODUCED FOR PROFESSIONALS**

**Volatile Organic Compounds Emission**

Parameter	Max. allowed concentration (µ/m <sup>3</sup> )
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

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