



COMPLYING WITH EU REGULATION

UNI EN 1504-2 (C)

PI-MC-PR

CONCRETE SURFACE PROTECTIONS
SYSTEMS

DESCRIPTION OF THE PRODUCT

Elastomeric resin-based waterproofing paste in water emulsion and special rubber fillers with long life waterproofing quality and exceptional resistance to puncture. The product has excellent durability and impermeability.

APPLICABLE REGULATIONS

SCUDO SYSTEM meets the following requirements:

- **UNI EN 1504-2:** Concrete surface protection systems;
- **IAPMO UES ER-711:** Performance certification of liquid waterproofing products, with specifications for applications in contact with the ground;
- **EC1 PLUS** labeling, which identifies EMICODE certified products: construction products with very low volatile organic compound (VOC) and semi-volatile organic compound emissions.

USE FIELDS

Product used for tanking waterproof of counter-ground walls, foundations and concrete products with excellent resistance to salted water in case of contact. Good bonding strength on concrete, bricks, masonry and wood.

SURFACE PREPARATION

Clean the support thoroughly to eliminate: dirt, dust, loose materials, any form of oil or grease and foreign or bonding-proof matters. Apply the product only on dry surfaces.

WARNING

Do not add any additives.
Do not use if the packaging is damaged.
Do not add any water nor solvents.

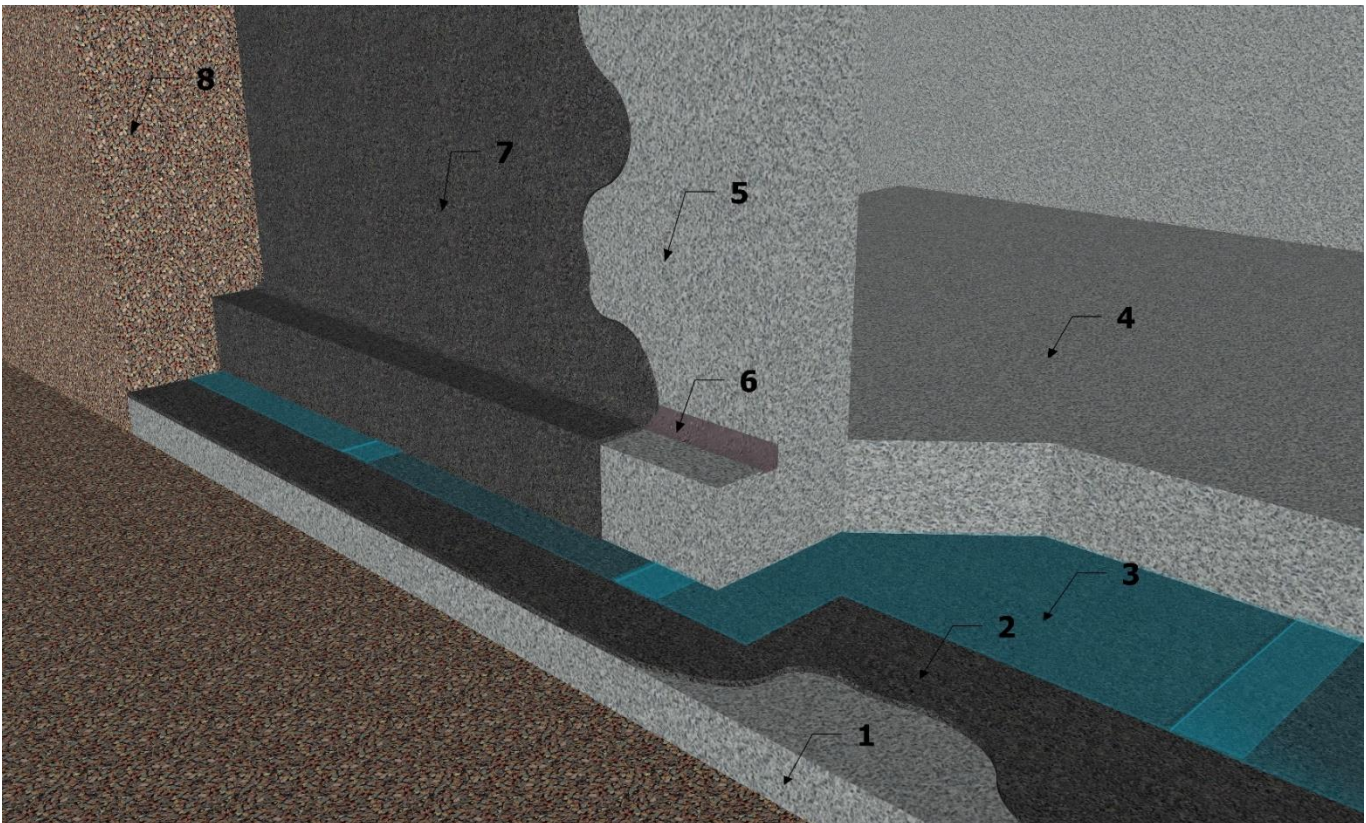
PRECAUTION

Before applying on concrete ensure that the concrete support is well cured, and there is no condensation contained in the structure (usually 28 days after casting).

Before applying the product check the support for hidden moisture to avoid scaling and superficial blisters due to vapor pressure. Do not apply SCUDO SYSTEM on frozen surfaces, or when precipitations, fog or frost is imminent. Once applied, protect SCUDO SYSTEM from any form of water (liquid, vapor or ice) for at least 24 hours. After 24 hours, it is fully waterproof. Wait between 4 to 7 days before embanking. Apply the product at temperatures between +5°C and + 35°C.

APPLICATION

The product is ready to use and can be applied with ONLY A COAT with metallic trowel or by spraying.



KEY:

1. Lean Concrete;
2. Screed waterproofing SCUDO SYSTEM[®];
3. Desolarizing layer;
4. Foundation;
5. Backfill wall;
6. Cove WR07 - FIBROWIN;
7. SCUDO SYSTEM[®];
8. Backfill.

CONSUMPTION

Total consumption: 2.8 - 3.3 kg/m².

Vapour barrier: 3-3.3 kg/m²

PACKAGING

20 kg buckets.

STORAGE

The product in its undamaged packaging can be stored for 12 months. Please store it at temperatures between + 5 °C and 35 °C. No frost-proof.

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

TECHNICAL FEATURES (average values)**PRODUCT FEATURES**

FEATURES	STANDARDS	RESULTS
Aspect:	-	Paste
Colour:	-	Black
Specific gravity at 20°C	EN ISO 2811-1	1,22 ± 0,01 g/cm ³
Solid content	UNI 8490-4	72 ± 1%
Ph	EN ISO 3251	9 ± 1
Brookfield viscosity at 20°C	UNI EN 8490	40.000 ± 3.000 cps

OPERATIONAL PRODUCT PERFORMANCES

M. Masini S.r.l. test and researches institute - TEST REPORT N. 1367-2008

FEATURES	STANDARDS	RESULTS
Adhesion test – Concrete	ASTM D903	Average value: 1.62 MPa IMPORTANT NOTE: Detachment of support from the product
Durability	UNI EN 13251 app. B	Passed, $\geq 80\%$
Water Impermeability	UNI EN 1928	Passed, ≥ 60 kPa
Resistance to static loading - Puncture	UNI EN 12730	Passed, ≥ 15 kg
Resistance to negative pressure	UNI 8298/8	2 bars

HARDEN PRODUCT FEATURES ACCORDING TO UNI EN 1504-2

FEATURES	STANDARDS	RESULTS
Adhesion strength	UNI EN 1542	≥ 1.5 N/mm ²
CO ₂ permeability	UNI EN 1062-6	S _D > 50 m
Water vapour permeability	UNI EN 7783	S _D > 50 m (Classe III)
Capillary absorption and water permeability	UNI EN 1062-6	W < 0.1 kg/m ² .h ^{0.5}
Strike resistance	UNI EN ISO 6272-1	≥ 20 N.m

CARATTERISTICHE DEL PRODOTTO INDURITO

CARATTERISTICA	NORMATIVE	Performance after 14 days curing	Performance after 2 years in contact with moist soil
Tensile strength	ASTM D 2370	≥ 140 psi	≥ 110 psi
Elongation	ASTM D 2370	$\geq 85\%$	$\geq 100\%$
SHORE hardness	ASTM D2240	30	30
Water absorption	ASTM D 472	$\leq 8\%$	$\leq 10\%$

Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (µg/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 PROFESSIONALS ONLY

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.