

# PRODUCT DATA SHEET

## OSMOWIN SUPER

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COMPLYING WITH THE EU RULE

UNI EN 1504 (C)

PI-MC-IR

CONCRETE SURFACES  
PROTECTION SYSTEM

### DESCRIPTION OF THE PRODUCT

Cementitious waterproofing premixed mortar with osmotic action, formulated with selected aggregates in a perfectly graded granulometric curve. Its special additives and ultra-fine fillers promote the formation of an insoluble crystalline structure by using the water present in the substrate as a carrier. This crystallization seals capillary pores and micro-cracks, effectively preventing water ingress while maintaining good breathability. Formulated by WINKLER Research & Development Laboratories.

### FIELDS OF USE

The product offers excellent workability and is resistant to negative water pressure (counterthrust). It is suitable for the waterproofing of retaining walls, channels, basements, garages, elevator shafts, cellars, and tanks or basins intended for the containment of potable water. It can also be used as a finishing coat on surfaces previously treated with **BLOCKWATER**.

### SURFACE PREPARATION

Thoroughly clean the substrate to remove damaged concrete, salts, dust, loose or friable material, rust, and any foreign or non-adherent substances. If necessary, clean the surface by sandblasting or high-pressure water jetting. Before application, saturate the substrate with water.

### WARNING

- Do not add any additives or cement.
- Do not use the product if the packaging is damaged.
- Do not add water once the mixture has begun to harden.
- Do not apply on asphalt or bitumen-treated surfaces.

## PRECAUTIONS

Apply at temperatures between +5°C and +35°C. Protect the treated surface from direct sunlight and wind during the first 24 hours after application. If necessary, continue to moisten the surface even after application to ensure proper curing. Store the product in a dry environment, protected from frost and humidity, prior to use.

Always mix with cold water.

Fresh mortar can be removed from tools using clean running water. Once hardened, tools must be cleaned mechanically.

## APPLICATION

Mix with 5.1-5.6 L of clean water until a homogeneous, lump-free mixture is obtained.

After mixing, the product can be applied using a brush, spatula, or plaster sprayer.

On powdery substrates, it is recommended to apply **WINFIX CONCRETE** as a primer before using the product.

## CONSUMPTION

1,6 kg/m<sup>2</sup> per mm of thickness

For light seepages: 2-3 kg/m<sup>2</sup> in a single coat

For continuous water presence: 4-4.5 kg/m<sup>2</sup> in two coats

For water pressure up to 1 atm: 6-7 kg/m<sup>2</sup> in two or three coats

## PACKAGING

25 kg bags

## 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).

## TECHNICAL FEATURES (average value)

**OSMOWIN SUPER** complies with the principles outlined in **ENV 1504-9**: "Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control, and evaluation of conformity. General principles for the use of products and systems."

It also meets the minimum requirements of **EN 1504-2** for coating **(C)** systems, according to the **PI-MC** and **IR** principles ("Concrete surface protection systems").

## PRODUCT FOR PROFESSIONAL USE

FEATURES	RESULTS
Maximum aggregate size	0,35 mm
Appearance	Powder
Colour	White – Grey
Mixing water per 25 kg bag	Min. 5.10 L – Max 5.60 L
Pot life (mixture duration)	Approx. 60 minutes
Density of fresh mix (bulk density)	Approx. 1700 kg/m <sup>3</sup>
Compressive strength after 28 days (UNI EN 1015-11)	24 N/mm <sup>2</sup>
Flexural strength after 28 days (UNI EN 1015-11)	6 N/mm <sup>2</sup>

## PRODUCT PERFORMANCES ACCORDING TO UNI EN 1504-2

CO <sub>2</sub> permeability	UNI EN 1062-6	S <sub>D</sub> >50m
Water Vapour Permeability	UNI EN 7783	S <sub>D</sub> <5m Class I (low permeability)
Capillary Absorption and Water Permeability	UNI EN 1062-3	W < 0.1 kg/m <sup>2</sup> .h <sup>0.5</sup>
Direct Adhesion to Concrete	UNI EN 1542	> 2 N/mm <sup>2</sup>
Reaction to Fire	UNI EN 13501-1	Class A1
Chloride Ion Content		≤ 0.05 %

## VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION (µg/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\_02.

The product complies with the requirements of Directive 2003/53/EC.

## PRODUCT FOR PROFESSIONAL USE ONLY

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