PRODUCT DATA SHEET

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CE

WF01 - OSMOWIN

COMPLYING WITH THE UE RULE
UNI EN 1504-2 (C)
PI-MC-IR
CONCRETE SURFACES PROTECTION SYSTEMS

DESCRIPTION OF THE PRODUCT

Cementitious, waterproofing, pre-mixed, anti-shrink mortar with selected aggregates in a perfectly graded particle size distribution. Its special additives and fine fillers promote the formation of insoluble crystals, which – using the water contained in the substrate as a vehicle- seal pores and capillaries, preventing water penetration while maintaining excellent vapor permeability. Formulated by WINKLER Research & Development Laboratories.

FIELDS OF USE

The product offers excellent workability and is also resistant to water counterthrust. It is used for the waterproofing of earth-retaining walls, basins, tanks, channels, cellars, garages, lift wells, and tanks for non-potable water. It can also be applied as a finishing coat on surfaces previously treated with **BLOCKWATER**.

SURFACE PREPARATION

Thoroughly clean the surface to remove salts, dust, loose or crumbly material, and any foreign or non-adherent substances. Pre-wet the substrate with water before application.

WARNING

Do not add any additives.
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

As with any cementitious product, **WF01-OSMOWIN** forms a rigid coating that may develop cracks and leaks during substrate settlement, which can reduce waterproofing performance. To increase the coating's elasticity, it is recommended to add **ADEGUM LATEX** as follows: mix 3 parts **WF01-OSMOWIN** with 1-part **ADEGUM LATEX**, reducing the water content of the mixture accordingly. Apply the product at temperatures between +5°C and +35°C.

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APPLICATION

Mix **WF01-OSMOWIN** with 7.2-7.4 L of clean water until a homogeneous, lump-free mixture is obtained. Apply the product using a brush or spatula. Pre-wet the substrate before application. For powdery or weak substrates, it is recommended to apply **WINFIX CONCRETE** as a primer beforehand.

CONSUMPTION

1.8 kg/m^2 per mm of thickness
For minor seepages: 2-3 kg/m^2 in a single coat
In the presence of water: 4-4.5 kg/m^2 in two coats
Under pressure up to 1 atm: 6-7 kg/m^2 in two 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).

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TECHNICAL FEATURES
(average values)

WF01-OSMOWIN meets the principles outlined in **EN 1504-9** ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control, and conformity assessment. General principles for the use of products and systems") and fulfils the minimum requirements of **EN 1504-2 (C)** according to **PI-MC** and **IR** principles ("Concrete surface protection systems").

FEATURES	RESULTS
Maximum aggregate particle diameter	0.35 mm
Appearance	Powder
Colour	Grey - White
Water for mixture (per 25 kg bag)	7.20 – 7.40 L
Mixing duration	60 minutes
Bulk density of mixture	1700 kg/m^3
Compressive strength after 28 days (EN 1015-11)	24 N/mm^2
Flexural strength after 28 days (EN 1015-11)	5 N/mm^2

PRODUCT PERFORMANCES
ACCORDING TO UNI EN 1504-2

FEATURES	STANDARD	RESULTS
CO_2 permeability	UNI EN 1062-6	S_D>50m
Water vapor permeability	UNI EN 7783	S_D> 5 m – Class I (Low permeability
Capillary absorption and water permeability	UNI EN 1062-3	W < 0.1 kg/m^2.h$^{0.5}$
Direct adhesion to concrete	UNI EN 1542	> 2 N/mm^2
Reaction to fire	UNI EN 13501-1	Class A1
Chloride ion content	-	≤ 0.05 %

winkler® Advanced Building Material

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VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION (µg/m³)
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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