PRODUCT DATA SHEET

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CE

WFZ5 - WINFLEX CEMENT

COMPLYING WITH THE UE RULE
UNI EN 14891
CM 01 P
WATERPROOFING LIQUID APPLIED PRODUCTS TO BE USED UNDER CERAMIC TILES, GLUED BY ADHESIVES

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

DESCRIPTION OF THE PRODUCT

Two-component elastic cementitious pre-mixed coating, waterproofing and protective, specifically formulated for application on concrete, screeds, and plaster. The product is suitable for use in structures intended to contain non-potable water.
Developed by WINKLER Research & Development Laboratories.

FIELDS OF USE

The product is designed for waterproofing of concrete tanks intended for containing non-potable water. It also serves as a waterproofing layer on terraces, swimming pools, bathrooms, and other similar areas prior to the installation of ceramic coverings. The product can be applied as an elastic skim coat, including on lightweight concreate blocks. It is suitable for the smoothing and protection of viaducts or other reinforced concrete structures exposed to carbon dioxide attack. Additionally, it can be used for the restoration and smoothing of cracked plasters to prevent further degradation.

SURFACE PREPARATION

Remove any damaged or deteriorated concrete, if necessary. Sandblast or wash thoroughly with a high-pressure water jet to ensure the surface is clean and sound. The substrate must be free from salts, oils, greases, friable parts, and any foreign or anti-adhesive substances. Prior to application, saturate the substate with water, ensuring it is moist but not waterlogged at the time of product application.

WARNING

Do not add cements or any additives.
Do not use the product if the packaging is damaged.
Do not apply on asphalt or bitumen-treated surfaces.

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PRECAUTIONS

Apply the product at temperatures between +5°C and +35°C. During the first 24 hours, protect the surface from direct sun and wind, and if necessary, continue to keep it damp after application. Store the product before use in a frost-free environment, protected from moisture. Mix the product with cold water. Fresh mortar can be removed from tools used for preparation and application with running water, while hardened material must be removed mechanically. For tanks and structures intended to contain water, wait at least 7 days after the last coat before filling, ensuring the treated surface is washed and dried.
For the installation of ceramic coverings, wait at least 24 hours after the last coat. It is recommended to use a cementitious adhesive with improved adhesion (C2) and deformable (S1) or highly deformable(S2).

APPLICATION

Mix the two pre-dosed components (powder and liquid) thoroughly until a homogeneous mixture is obtained. Apply the product using a spatula, trowel, or spray. If reinforcement is required, embed a suitable fiberglass mesh into the still-fresh first layer. Allow the first coat to dry completely before applying the second coat.

CONSUMPTION

1.7 kg/m^2 per mm of thickness
Recommended thickness: 2 mm each coat
Maximum thickness: 4 mm (applied in two coats with reinforcement)

PACKAGING

COMPONENT A: 25 kg bags
COMPONENT B: 7.25 kg tanks

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

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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 values)

WFZ5 – WINFLEX CEMENT complies with the requirements of **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 meets the minimum requirements of **EN 1504-2** for cladding (**C**) in accordance with the **PI**, **MC**, and **IR** principles ("Concrete surface protection systems").

FEATURES	COMPONENT A	COMPONENT B
Appearance	Powder	Liquid
Colour	Grey	White
Mixing ratio	100 parts	29 parts
Dry content	100%	40%
Consistency	Plastic – applicable by trowel	
Mixing duration	60 minutes	
Mixture density	1700 kg/m^3	

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PRODUCT PERFORMANCES ACCORDING TO UNI EN 1504-2

Adhesion to the substrate (UNI EN 1542) after 28 days at +20°C and 50% R.H.	
Concrete	≥ 0.90 N/mm^2
Fiber cement	≥ 0.65 N/mm^2
Tile	≥ 0.80 N/mm^2
Vapor permeability (UNI EN 7783)	μ = 1200 Class: I Sd < 5m
Water absorption by capillarity and permeability	W< 0.1 kg/m^2.h$^{0.5}$
Chloride ion content	≤ 0.05 %
Reaction to fire (Euroclass)	F

PRODUCT PERFORMANCES ACCORDING TO UNI EN 14891

Adhesion to concrete (UNI EN 14891)	
Initial	≥ 0.90 N/mm^2
After water immersion	≥ 0.75 N/mm^2
After freeze-thaw cycles	≥ 0.80 N/mm^2
After thermal cycles	≥ 1.40 N/mm^2
After contact with lime water	≥ 0.80 N/mm^2
Impermeability to water pressure (UNI EN 14891)	None
Crack bridging ability (UNI EN 14891)	
Crack bridging ability at +23°C	≥ 1.20 mm
Crack bridging ability at -5°C	≥ 1.00 mm

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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