

COMPLYING WITH THE UE RULE

UNI EN 1504-2 (C)

PI-MC-IR

CONCRETE SURFACES PROTECTION
SYSTEMS

COMPLYING WITH THE UE RULE

UNI EN 14891

CM 01 P

WATERPROOFING LIQUID APPLIED
PRODUCTS TO BE USED UNDER
CERAMIC TILES, GLUED BY ADHESIVES.

PRODUCT CHARACTERISTICS

Elastic, waterproofing and protective two-component cementitious pre-mixed product for concrete, screeds and plaster, suitable for containing non-drinking water, formulated in the WINKLER Research & Development laboratories.

USE FIELDS

Waterproofing of concrete tanks suitable for containing non-drinking water. Waterproofing of terraces, swimming pools, bathrooms, etc. before laying ceramics. As an elastic skim coat even on lightweight concrete blocks. Surface protection levelling even on structures in contact with saline waters. Smoothing of viaducts and / or constructions with possible attacks by carbon dioxide. Smoothing on cracked plasters to avoid further degradation.

SURFACES PREPARATION

Remove the damaged concrete if necessary, sandblast or wash carefully with a jet of water under pressure the surface, that must be free of salts, oils, greases, friable parts and foreign or anti-stick substances. Soak the substrate before application.

WARNING

Do not add cement nor additives.
Do not use in case the packaging is damaged.
Do not apply on asphalt surfaces or treated with bitumen.

APPLICATION

Mix well the two pre-dosed components (powder and liquid) until getting a homogeneous mixture. Apply the product with spatula, trowel or spray. Reinforce with appropriate fiberglass net, to be embedded in the still fresh first layer. Wait for complete drying before laying the second coat.

USEFUL ADVICES

Apply between +5°C and +35°C. Protect from sun and wind during the first 24 hours and if necessary keep on dampening the surface even after the application. Store the product, before use, away from frost and in an environment protected from moisture. Mix with cold water. Remove fresh mortar from the tools with running water. After hardening, cleaning is carried out only mechanically. For application in tanks and any structure intended to contain water, wait at least 7 days from the last coat before filling, after washing and drying the treated surface.

For the laying of ceramic coverings, wait at least 24 hours from the last coat. The use of a cementitious adhesive with improved adhesion (C2) and deformable (S1) or highly deformable (S2) is recommended.

CONSUMPTION

1.7 kg/m² for each mm of thickness.

Thickness: 2 mm each coat

Maximum thickness: 4 mm (in 2 coats with reinforcement).

PACKAGING

25kgs bags (component A)

7.25kg tanks (component B)

STORAGE

The product (A+B) has 12 months stability if properly packed and store in a cool dry place between +5°C and +35°C.

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

TECHNICAL DATA (average values)

WFZ5 WINFLEX CEMENT complies with the requirements defined in ENV 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 to the minimum requirements of EN 1504-2 cladding (C) according to the PI, MC and IR principles ("Concrete surface protection systems").

	COMP. A	COMP. B
Appearance:	powder	liquid
Colour:	grey	white
Mixing ratio:	100 parts	29 parts
Dry content :	100 %	40 %
Consistency:	Plastic - trowelable	
Mixing duration:	60 minutes	
Mixture density(Kg/m ³):	1700	

PRODUCT PERFORMANCES ACCORDING TO UNI EN 1504-2

Adhesion to the substrate (EN 1542) (N/mm ²) (after 28days +20°C and 50% R.H.)	
CONCRETE	≥ 0.90 N/mm ²
FIBERCEMENT	≥ 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 ions content	≤ 0.05 %
Fire reaction (Euroclass):	F

PRODUCT PERFORMANCES ACCORDING TO UNI EN 14891

Adhesion to concrete 8EN 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 to lime water	≥ 0.80 N/mm ²
Impermeability to water pressure EN 14891	None
Crack Bridging Ability according to EN 14891.	
Crack Bridging Ability (+23°C)	≥ 1.20 mm
Crack Bridging Ability (-5°C)	≥ 1.00 mm

Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (μ/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. 392-2018-00081401_G_EN_02.

PRODUCT FOR PROFESSIONAL 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 update said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.