

MEETS THE EU LEGISLATION

UNI EN 1504-2 (C)

STANDARDS

PI-MC-IR

CONCRETE SURFACE PROTECTION SYSTEMS

DESCRIPTION OF THE PRODUCT

Two-component, elastic, waterproofing and protective for concrete, screeds and plasters, suitable for containing drinking water, formulated by WINKLER Research & Development Laboratories.

USE FIELD

WINFLEX CEMENT SUPER is used for:

- Waterproofing of concrete tanks suitable for containing water.
- Elastic smoothing even on lightened concrete blocks.
- Surface protection smoothing even on structures in contact with saline waters.
- Leveling of viaducts and / or buildings attacked by carbon dioxide.
- Smoothing over cracked plasters to avoid further degradation.

After hardening WINFLEX CEMENT SUPER, this becomes waterproof and resistant to bad weather conditions, to frost and salts. It can be exposed.

SURFACE PREPARATION

Remove the degraded concrete and, if necessary, carefully sandblast or wash the surface with a pressurized water jet, which must be free of salts, oils, greases, friable parts and foreign or anti-adherent substances. Wet the substrate to excess before application.

For the reinforcement and sealing of the corners, we recommend the application of waterproofing butyl tape, coated with polypropylene non-woven, BC SEAL BAND.

For the waterproofing of emerging surfaces, plumbing pipes and drains in general, use BC SEAL PAD, a butyl waterproof self-adhesive square.

SURFACES WITH JOINTS

Joints **up to 1cm wide**, must be sealed with WINJOINT BAND joint cover strip (waterproof elastic band, made of rubber and polyester fabric, suitable for waterproofing the joints) as described below:

After creating the new joints or restoring the existing ones, apply WINFLEX CEMENT SUPER on both side of the joint and for a greater width than the one of the joint cover.

Spread the joint cover by making the lateral perforated band sticks "wet" to the area pre-treated with WINFLEX CEMENT SUPER.

Once dried, the product can be fully covered with the last coat of WINFLEX CEMENT SUPER.

Joints **larger than 1cm** must be sealed using a system consisting of WINJOINT FOAM (compressible joint bottom), WINJOINT SEAL (polyurethane sealant) and WINJOINT BAND as described below:

After creating the new joints or restoring the existing ones, insert WINJOINT FOAM inside the joint to the desired depth and then extrude WINJOINT SEAL along the entire length of the joint. Once the sealant has dried, apply WINJOINT BAND as previously described.

WARNINGS

No additives nor cement required.

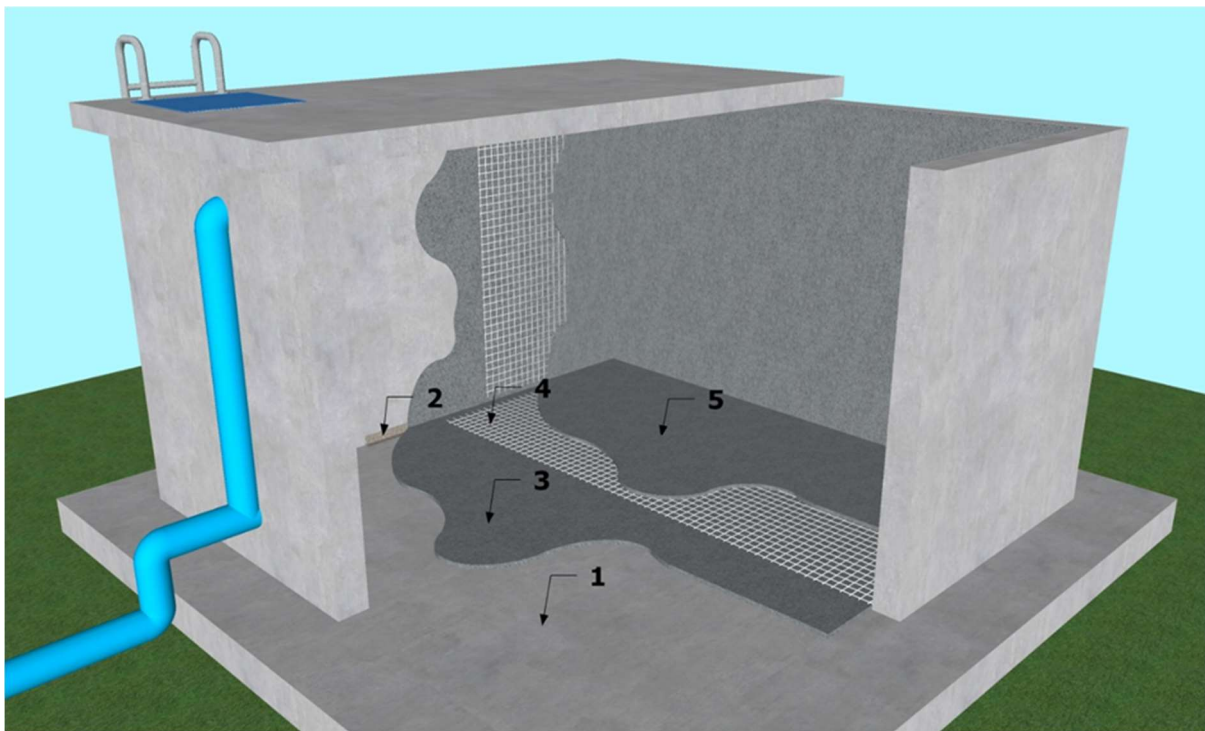
Do not use if the container is damaged.

Do not apply on asphalt or bitumen treated surfaces.

APPLICATION

Mix well the two pre-measured components (insert the powder into the liquid) until a homogeneous mixture is obtained. The product can be applied with a spatula, trowel, brush or spray. Reinforce with a suitable fiberglass mesh, to be drowned in the first still wet layer. Wait for complete drying (24 hours) before proceeding with the application of the second coat.

After complete hardening (7 days from the last coat) it will be possible to fill with water, after washing and drying the WINFLEX CEMENT SUPER's surface.



KEYS:

1. Concrete substrate;
2. BC SEAL BAND, self-adhesive band;
3. First coat of WINFLEX CEMENT SUPER;
4. Anti-alkali net;
5. Second coat of WINFLEX CEMENT SUPER.

ADVICES

We advise to apply at temperatures between +5°C and +35°C. Protect it from sun and wind during the first 24 hours, if necessary keep on wetting the surface even after the application. Store the product, before using, out of frost and in a dry place. Mix with cold water. Wet mortar can be removed from tools by running water. After the hardening it can be cleaned just mechanically.

CONSUMPTION

1.7 kg/m² per each mm of thickness.

Minimum Thickness: 2 mm

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

PACKAGING

20kgs bags. (Component A)

10kgs cans. (Component B)

STORAGE

The product (A + B) is stable for 12 months when stored in its unopened package, at temperatures 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)

WINFLEX CEMENT SUPER meets the principles delineated in UNI EN 1504-9 ("product and systems for protection and reparation of concrete structures: definitions, requirements, quality control and conformity valuation. General principles for usage of products and systems.") and the minimal requirements requested by EN 1504-2 covering (C) according to PI,MC and IR standrds ("Concrete surface protection systems").

TECHNICAL FEATURES

	COMP. A	COMP. B
Look:	powder	liquid
Colour:	grey	white
Mixture Ratio:	2 parts	1 part
Dry content:	100 %	50 %
Texture:	Plastic - applicable by trowel	
Mixture pot-life:	60 minutes	
Mixture volume mass (kg/m ³)	1700	

FEATURES OF THE HARDENED PRODUCT

Adhesion to support (EN 1542) (N/mm ²) (after 28 days +20°C and 50% U.R.)	
CONCRETE	0.95
FIBRE-CEMENT	0.65
TILE	0.80
Waterproofing to passive water pressure EN 14891-A 7(4.0 bar in positive thrust)	No penetration
Crack Bridging Ability according to UNI EN 14891.	
After 7 days	0.90 mm size
After 28days	1.20 mm size
Release of any element after immersion into water	No release (dry content 0%)

Product features meets with prescriptions of the UNI EN 1504-2

Permeability to CO ₂ (UNI EN 1062-6)	S _d >50 m
Permeability to water vapour (UNI EN 7783)	μ =1200, S _D = < 5m Classe I
Capillary absorption and water permeability (UNI EN 1062-3)	W< 0.1 kg/m ² .h ^{0,5}
Direct adhesion (UNI EN 1542)	≥ 0.8 N/mm ²
Content of chloride ions	≤ 0.05 %

VOLATILE ORGANIC COMPOUNDS EMISSION

Parameter	Max. allowed concentration ($\mu\text{/m}^3$)
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. 392-2018-00081401_G_EN

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.