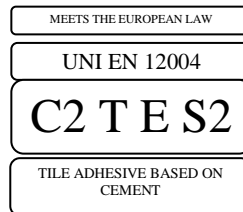
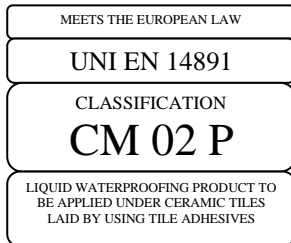


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DESCRIPTION OF THE PRODUCT

Two-component waterproofing cementitious adhesive for laying ceramic tiles, grès and stone material on floors and / or walls both indoors and outdoors, even when over-applied. Formulated in WINKLER R&D laboratories.

BOND CEMENT is an improved cement-based adhesive with additional characteristics **(C2)**, reduced slip **(T)**, extended open time **(E)**, highly deformable **(S2)**.

BOND CEMENT has obtained the important **EC1 PLUS**, which identifies EMICODE certified products: building products with very low emissions of volatile organic compounds (VOCs) and semi-volatile ones.

USE FIELDS

Product used to wall and floor bonding of different size floorings and ceramic tiles, both indoor and outdoor, suitable for balconies, swimming pools, bathrooms, steam shower, heated floors, terraces and load dispatching layers. The ideal to overlap ceramic materials on pre-existing coatings and ceramic floors. The product requires only a coat and does not need the use of a mesh.

SURFACE PREPARATION

Check that the substrate is homogeneous, that it has undergone the correct seasoning, does not present any crack and that it complies with the requirements indicated in the UNI EN 11493-1 standard. Accurately clean the surface to eliminate: salts, dust, crumbly parts, foreign or bonding-proof matters. Wet the support before the application.

For uneven substrates, use the self-leveling products **WINLIVEL** or **WINLIVEL RAPID** for horizontal surfaces, while for vertical surfaces use **WR05 WINTONAC**.

For screeds, use **WINPLAN 370**, a quick-drying screed or **WINPLAN PRO**, a quick-drying screed with low water absorption.



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For corners reinforcement and sealing, it's advisable applying BC SEAL BAND, self-adhesive band covered with non-woven. For waterproofing and sealing around roof penetrations such as drain, ventilation pipes, other roof penetrations or around plumbing pipes and drains, use BC SEAL PAD, self-adhesive butyl square pad. Apply BOND CEMENT in a continuous and homogeneous coat, in order to allow a perfect waterproofing layer.

SURFACES WITH JOINTS

As regards the design and creation of the joints, make reference to the provisions of UNI EN 11493-1.

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

After creating the new joints or restoring the existing ones, apply BOND CEMENT laterally to the joint and for a width that is larger than the joint cover.

Lay the joint cover by adhering the perforated side band to the pre-treated area with BOND CEMENT.

Use the following system to seal **joints more than 1cm wide**:

WINJOINT FOAM (compressible polyethylene foam backer rod), WINJOINT SEAL (polyurethane sealant) and WINJOINT BAND, as described below:

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

WARNING

No cement nor additive required.

Do not use if the bag is damaged.

Do not add water when the compound is starting setting.

Do not apply on surfaces treated with asphalt nor bitumen.

PRODUCT PREPARATION

Shake component B before use. Pour component B (white liquid) into the bucket provided and slowly add component A (white powder) by mixing constantly and at a low speed by a drill, until a homogeneous and lump-free mixture is obtained. Leave to rest for about three minutes, then continue mixing for about two minutes before proceeding with the application.

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.



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APPLICATION

WATERPROOFING-BONDING ACTION FOR SMALL-MEDIUM SIZE COATINGS (SURFACE SMALLER THAN 900 cm²)

After homogeneously mixing the product as previously described, lay a **CONTINUOUS** layer on the support with **CONSTANT THICKNESS** as that can ensure the wettability feature of the tile counter-face. Approx. 2.5 mm are enough on non-damaged surfaces.

Slightly press to create crests with the toothed part of the knife.

In order to guarantee waterproofing **WE MUST ENSURE THE CONTINUITY OF THE BOND CEMENT LAYER APPLIED.**

WATERPROOFING-BONDING ACTION FOR LARGE-SIZE COATINGS (AREA OVER 900cm²), WATERPROOFING OF ALL THE SIZES IN SWIMMING POOLS AND BASINS:

BOND CEMENT must be coated ALSO on the backside of the tile (double-coating) to guarantee good bonding results, according to UNI EN 11493-1. To ensure greater waterproofing action, use BOND CEMENT also as a plaster for grout lines.

ADVICES

Apply BOND CEMENT at temperatures between +5° and +35°C°.

Coatings made by BOND CEMENT must not be subject to washout or rainfall for about 24 hours after the application.

Thanks to the elasticity of BOND CEMENT, it is suggested to add ADEGUM LATEX to the water mix for stuccos and runouts.

Each later stucco layer must be given only 18-20 hours after the application of BOND CEMENT.

As BOND CEMENT is a fast-setting product, coverings must be positioned within 20 minutes after the application of the cement bond. If used for grout lines, to facilitate cleaning, remove the excess after about 25/30 minutes from laying.

SWIMMING POOL COVERING

In case of slight counter-thrust humidity, before gluing the tiles, apply a coat of primer WINPOX 700 (two-component water-based epoxy resin) to consolidate and create a light barrier.

Apply BOND CEMENT, from 2 hours to of 18 hours after the application of WINPOX 700.

If the counter-thrust humidity is moderate or important, apply WINPOX CEMENT TIXO (three-component epoxy-cement).

Before applying BOND CEMENT on WINPOX CEMENT TIXO, lightly sand the surface.



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CONSUMPTION

Standard application

Waterproof coating + bonding crests: 3.5 kg/m².

Double spreading application

Waterproof coating + bonding crests: 4.5-5.0 kg/m².

PACKAGING

Component A (powder) kg 15.

Component B (liquid) kg 5.

STORAGE

The product in its undamaged packaging can be stored for 12 months. Please store it at temperatures between +5 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 FEATURES (average values)

	Comp. A	Comp. B
Look	Powder	Liquid
Colour	White	White
Solid content (%)	100	44
Mix ratio	A 100 + B: 33	
Mix colour	white	
Consistency	THIXOTROPIC PASTE, CAN BE SMOOTHED	
Working time (at +20°C)	70 minutes	
Traversability after application (at +20°C)	48hours	

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CERTIFIED RESISTANCES OF THE PRODUCT IN OPERATION According to UNI EN 12004-2017 Performances determined by the SOCOTEC ITALIA s.r.l.

Tensile adhesive strength (UNI EN 1348)	
• Initial	$\geq 1.0 \text{ N/mm}^2$
• After thermal aging	$\geq 1.0 \text{ N/mm}^2$
• After immersion in water	$\geq 1.0 \text{ N/mm}^2$
• After frosting-defrosting cycles	$\geq 1.0 \text{ N/mm}^2$
Extended open time: adhesion after 30 minutes (UNI EN 1346)	
	$\geq 0.5 \text{ N/mm}^2$
Determination of slip (UNI EN 1308)	
	$\leq 0.5 \text{ mm}$
Deformability (UNI EN 12002)	
	$\geq 5.0 \text{ mm}$
Establishing wetting power (UNI EN 1347)	
After 10 minutes	95.30%
After 20 minutes	60%
After 30 minutes	45%

CERTIFIED OPERATIONAL STRENGTHS OF THE PRODUCT According to UNI EN 14891

Tensile adhesion		
• Initial		$\geq 1.0 \text{ N/mm}^2$
• After immersion in water		$\geq 1.0 \text{ N/mm}^2$
• After thermal aging		$\geq 1.0 \text{ N/mm}^2$
• After frosting-defrosting cycles		$\geq 1.0 \text{ N/mm}^2$
• After contact with lime water		$\geq 1.0 \text{ N/mm}^2$
Waterproofing		
• Positive counter-thrust resistance		No infiltration (> 1,5 bar)
• Negative counter-thrust resistance		No infiltration (> 1,0 <1,5 bar)
Crack bridging (UNI EN 14891)		
Temperature	Obtained result	Requested
+23°C	1.39 mm	$\geq 0.75 \text{ mm}$
-5°C	1.05 mm	$\geq 0.75 \text{ mm}$
-20°C	1.0 mm	$\geq 0.75 \text{ mm}$



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OTHER OPERATIONAL FEATURES

Water absorption ASTM D 471	
24 hours	5.4%
7 days	10.5%
Elongation at break ASTM D2370	
	23%
Chlorine-proofing (28 days in 10% NaCl solution)	
	Very good
Sulphate-proofing (28 days in 10% K ₂ S ₀₄ solution)	
	Very good

Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (μ /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 product meets with the Law 2003/53/CE and its prescriptions.