



SISTEMI INNOVATIVI

REV. 318018

COPER CEM FLEX 2C

Two-component cementitious sheathing with superior technology

CHARACTERISTICS

COPER CEM FLEX 2C is a two-component cementitious sheath of superior technology, grey in colour, fibre-reinforced, highly resistant and flexible, based on cement, selected aggregates and synthetic polymers in aqueous dispersion. By mixing only the two components A (powder) and B (liquid), a flexible, spatula-able, highly resistant mixture is obtained, which can also be applied vertically up to 1 - 2 mm thick in a single coat.

Once hardened, COPER CEM FLEX 2C becomes an elastic, highly resistant and waterproof sheath, on which it is possible to directly apply suitable adhesives such as DURAFLEX or DURAFLEX IMPER for subsequent flooring or our special white or coloured elastic and waterproof sheaths such as COPER PAINT, COPER PAINT PLUS, COPER PAINT FINISH AS, COPER THERM, COPER GUM, ANCORANTE BH, etc. for its UV protection if the sheath remains exposed.

COPER CEM FLEX 2C is available in the following packages: 4 kg (3 kg component A + 1 lt component B), 16 kg (12 kg component A + 4 lt component B) and 32 kg (24 kg component A + 8 lt component B).

FIELDS OF USE

COPER CEM FLEX 2C is a sheath suitable for the protection and waterproofing of flat or pitched roofs, terraces, balconies, showers, concrete water tanks and swimming pools, foundations, etc., with perfect adhesion even on ceramics.

PREPARATION OF THE SUPPORT

The surfaces to be waterproofed with COPER CEM FLEX 2C must be perfectly dry, clean and solid. In fact, traces of dust, oil and grease, any release agents, flaking parts or layers of separating substances must be eliminated from the substrate. Dampen the substrate with water, if absorbent, only if necessary.

HOW TO USE

Pour **component B** (liquid) into a suitable clean container; then add, under mechanical stirring and slowly, **component A** (powder), mixing carefully for a few minutes with a low-speed stirrer, until a fluid and homogeneous mixture is obtained; COPER CEM FLEX 2C must be applied within 40 minutes of mixing.

Spread the resulting mortar on the substrate with a spatula

smooth stainless steel or even with a special squeegee in a maximum thickness, per layer, of approximately 1 ~ 2 mm. It is advisable, in the first fresh layer of COPER CEM FLEX 2C, to down the alkali-resistant and already primed PB fibreglass mesh, as a reinforcing armour. The edges of the PB mesh (in rolls) must overlap by at least 5 cm.

Then apply the second coat once the first has dried completely. To ensure total continuity and waterproofing of the system, before applying COPER CEM FLEX 2C, it is necessary to apply GIUNTO BOND (waterproof and elastic band) with the relative accessories ANGOLARE B10 and ANGOLARE B11 on the corners.

between the floor and the wall, and only the GIUNTO BOND in correspondence with any expansion joints.

For the subsequent laying of ceramic tiles such as porcelain stoneware, etc., after at least 5 days of curing of the sheath, we recommend using our DURAFLEX adhesive and our COLORFILL 2 ~ 12 or PAVIFILL 4 ~ 20 joint sealants directly on the COPER CEM FLEX 2C, preferably added with our FILL PLUS elastomeric joint latex.

For non-paved surfaces, we recommend applying our special elastic and waterproof sheaths COPER PAINT, COPER PAINT PLUS, COPER PAINT FINISH AS, COPER THERM, COPER GUM, ANCORANTE BH, etc. to protect COPER CEM FLEX 2C left exposed from UV rays.

WARNINGS

- For work on new substrates, prepare the screed with appropriate slopes to avoid water stagnation; for work on existing substrates, check the slopes before applying COPER CEM FLEX 2C.
- Avoid applying below 5°C and above 35°C.
- Do not apply COPER CEM FLEX 2C in thicknesses greater than 2 mm per coat.
- Do not add other aggregates or hydraulic binders to COPER CEM FLEX 2C.
- Always observe the correct mixing ratio.
- Do not apply when there is threat of rain, heavy rain, strong sun or strong wind.
- Protect from rain or accidental water ingress in the first 24 hours after installation, also making sure that the temperature never drops to zero degrees.
- For terraces or roofs of large surfaces, provide suitable expansion joints and also steam vents, positioned according to the humidity present in the substrate (approximately every 25/30 m²). The latter warning is essential when the application of COPER CEM FLEX 2C takes place on substrates particularly absorbent materials that retain humidity, such as lightweight screeds.
- For large pools, we do not recommend thick stone cladding.

BOLLETTINO TECNICO

REV. 318018



SPECIFICATION ITEM

Application of a two-component cementitious sheath of superior technology, fibre-reinforced, high resistance and flexibility, based on cement, selected aggregates and synthetic polymers in aqueous dispersion, grey in colour, suitable for waterproofing flat or pitched roofs, terraces, balconies, showers, concrete water tanks and swimming pools, foundations, etc., obtainable by mixing only components A (powder) and B (liquid), to be applied in two coats with a smooth stainless steel spatula, after applying the elastic and waterproof accessories **GIUNTO BOND BUFFA** (band) and **ANGOLARE B10 BUFFA** and **ANGOLARE B11 BUFFA**, preferably drowning in the first coat the **PB BUFFA** fibreglass MESH, with an average consumption of 1.5 kg per m² per mm of thickness, to be paved directly on top with suitable adhesives such as **DURAFLEX BUFFA** or protected from UV rays with elastic sheaths such as **COPER PAINT FUNNY**, **COPER PAINT PLUS**, **COPER PAINT FINISH AS BUFFA**, **COPER THERM BUFFA**, **COPER GUM BUFFA**, **ANCORANTE BH BUFFA**, etc.. if left exposed, such as **COPER CEM FLEX 2C BUFFA**.

TECHNICAL DATA COMP. A

I WAIT	dust
COLOR	grey
APPARENT DENSITY MASS	1,4 g/cm ³
SOLID RESIDUE	100%
TOXICITY	non-toxic product
PACKAGING	3/ 12 / 24 kg bags
STORAGE	12 months in unopened packaging, away from heat, frost and humidity

TECHNICAL DATA COMP. B

I WAIT	liquid
COLOR	white
APPARENT DENSITY	1,1 g/cm ³
pH (IN AQUEOUS DISPERSION, 10%)	7,5 a 25°C
SOLID RESIDUE	50%
TOXICITY	non-toxic product
PACKAGING	1 / 4 / 8 liter bins
STORAGE	12 months in intact packaging, away from heat, frost and humidity

APPLICATION DATA

TRIP	1.5 Kg per m ² per mm of thickness
MIXTURE RATIO	Comp. A : Comp. B = 3:1
DOUGH CONSISTENCY	plastic - spatula-able
pH OF THE MIXTURE	12,8
DOUGH VOLUME	1,6 g/cm ³
APPLICATION TEMPERATURE	from + 5°C to +35°C
DURATION OF THE DOUGH	40 min.

FINAL PERFORMANCES

DIRECT TENSILE ADHESION TEST (UNI EN 1504-2: 2005)	γ 1 N/mm ²
CRACK BRIDGING ability + 23°C (UNI EN 14891- A.8.2)	γ 0,75 mm
CRACK BRIDGING ability - 20°C (UNI EN 14891- A.8.3)	γ 0,75 mm

ATTENTION

The information, instructions and indications above are the result of our best technical and applicative knowledge; nevertheless, they are to be considered purely indicative. Therefore, it is the user's responsibility to verify, assuming full responsibility, the compatibility of the products with the intended use, as we cannot intervene directly on the conditions of the construction sites and the methods of carrying out the works. In this regard, a preliminary test is recommended in order to verify the suitability of the product for the intended use.