



INNOVATIVE SYSTEMS

REV. 324012

COPER CEM FLEX 2C

High technology cement based 2 component waterproofing membrane

FEATURES

The **COPER CEM FLEX 2C** is a cement membrane of superior technology. It is a grey, fibre-reinforced, 2 component compound offering high strength and flexibility, based on cement, selected aggregates and synthetic polymers in water dispersion. Mixing only the two components A (powder) and B (liquid), you get a flexible paste, that can be applied using a spatula or float offering high strength. It is also applicable in horizontal and vertical applications. The thickness should be not more than 1-2 mm thickness per layer.

On hardening, **COPER CEM FLEX 2C** becomes a supple, very resistant and waterproof membrane, to which you can apply directly a suitable adhesive such as **DURAFLEX** or **DURAFLEX IMPER** for subsequent paving. Alternatively you can apply elastic and waterproof compound such as white **COPER GUM** or **COPER PAINT** for UV protection.

COPER CEM FLEX 2C is provided with the following packages: Kit 4 kg (3 kg component A component B + 1 lt), Kit 16 kg (12 kg component A component B + 4 lt)

FIELDS OF USE

The **COPER CEM FLEX 2C** is a membrane suitable for protection and waterproofing of pitched or flat roofs, terraces, balconies, showers, water tanks and concrete swimming pools, foundations, etc., with perfect adherence even on ceramic tiles.

BASE PREPARATION

The surface to be waterproof with **COPER CEM FLEX 2C** should be clean and sound. The BASE must be cleaned from any traces of dust, oil and grease, any mould release agents, loose or flaking parts or layers of substances that are separating from the base. Moisten slightly with water the subfloor if it is absorbent.

APPLICATION INSTRUCTIONS

Pour **component B** (liquid) in a suitable clean container; then slowly add, under mechanical agitation, the **component A** (powder), mixing for a few minutes with low rev stirrer, until the mortar paste is smooth and homogeneous; the **COPER CEM FLEX 2C** should be applied within 40 minutes from mixing.

To guarantee a total continuity and long lasting waterproofing, you must waterproof the corners, cracks and expansion joints with **GIUNTO BOND** (waterproof elastic strip) prior to the application of the **COPER CEM FLEX 2C** on the flat surfaces. The system for application requires that the corners, cracks or joints are cleaned out properly. Then on the cracks and joints only a strip of common masking tape is applied over the gap.

Then apply on each side of the tape the **COPER CEM FLEX 2C** to a width slightly wider than the **GIUNTO BOND**, circa 12cm. Then place the **GIUNTO BOND** onto the still wet **COPER CEM FLEX 2C**, pressing it down to make sure it has good adhesion. Once this is dry apply a second layer of **COPER CEM FLEX 2C** to the **GIUNTO BOND** covering it completely.

For corners there are special **GIUNTO BOND** pieces called **ANGULAR B10** and **B11**. On corners no making tape is needed. Once **GIUNTO BOND** is complete and dry you can start the flat surface application. Spread the **COPER CEM FLEX 2C** mortar thus obtained on the base with a smooth stainless steel spatula or float or a special squeegee in one layer of 1 ~ 2 mm approximate maximum thickness. It is advisable, in the case of surfaces with small fissures and in the case of tiles to submerge a fiberglass alkali resistant net in the first fresh layer of **COPER CEM FLEX 2C** to give it further strength. The edges of the net should be overlapped by at least 5 cm even with the **GIUNTO BOND**. However the net should not go over the **GIUNTO BOND** to allow movement of joints and crack unhindered. Then apply the second coat when the first is completely dry. For subsequent installation of porcelain stoneware tiles, ceramic tiles etc., you should wait for at least 5 days of maturation of the membrane. Use directly on the **COPER CEM 2C** our adhesive and sealants **DURAFLEX** or **DURAFLEX IMPER**, grouting **COLORFILL 2 ~ 4** or **PAVIFIL 4~ 20**. It is advisable to use our elastomeric latex additive for grouting **FILL PLUS**.

Instead for unpaved surfaces, it is advisable for U.V. protection of **COPER CEM FLEX 2C** to use our special elastic and waterproof coatings **COPER GUM**, **COPER PAINT**, **COPER PAINT PLUS**, **COPER PAINT FINISH AS** or **COPER THERM**.

WARNINGS

- For new projects, prepare the screed with appropriate inclination to avoid water stagnation; for interventions on existing projects, check for the slopes prior to application of **COPER CEM FLEX 2C**.
- Avoid applying below 5° C or above 35° c.
- Do not apply the **COPER CEM FLEX 2C** in thickness greater than 2 mm per Layer.
- Do not add to the **COPER CEM FLEX 2C** water or other inert materials or hydraulic binders.
- Always Observe the correct mixing ratio.
- Do not apply with the threat of rain during rain, strong sun or high winds.
- Protect from the rain or from accidental water in the first 24 hours, taking care also that the temperature never drops to zero degrees.
- For terraces or large surfaces, install suitable expansion joints every 16 m² and vents for humidity distributed roughly every 25/30 m². The latter is very important on bases that hold moisture, such as lightweight screeds.

TECHNICAL DATASHEET



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TECHNICAL DATA COMP. (A)

APPEARANCE	grey powder
P/S. APP.	1.4 g/cm ³
SOLID RESIDUE	100%
TOXICITY	Non-toxic product
CONFECTION	3 kg bags or 12 Kg bags
STORAGE	12 months. Store the product in cool, dry place, away from frost and away from heat sources.

TECHNICAL DATA COMP. (B)

APPEARANCE	white liquid
P/S. APP.	1.1 g/cm ³
PH	9
SOLID RESIDUE	50%
TOXICITY	Non-toxic product
CONFECTION	Cans 1 lit, 4Lit
STORAGE 12 months.	12 months. Store the product in cool, dry place, away from frost and away from heat sources.Keep from freezing.

APPLICATION DATA

YIELD	1.5 Kg/m ² x mm thick
MIXTURE RATIO	Comp. A: Comp. B = 3: 1
CONSISTANCY	Plastic
PH MIXTURE	12.8
Ps MIXTURE	1.6 g/cm ³
APPLICATION TEMPERATURE	+ 5° C+ 35° C
DURATION of MIXTURE	40 min

FINAL PERFORMANCE

ADHESION to CONCRETE	0.8 N/mm ²
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ATTENTION

Information, data and the above mentioned indications are the result of our best technical knowledge and experience; nonetheless, this data is to be considered as purely indicative. It is therefore the user's responsibility to verify, assuming complete responsibility, product compatibility with the intended use. Since it is not possible for us to intervene directly on the conditions of construction sites and on the performance of the work in this regard, we recommend an onsite test in order to verify the suitability of the product for use.

The values of this technical data sheet refer to laboratory tests performed in a conditioned environment. They may vary in implementation on site due to the weather condition.



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