

FLEXOCEM white & grey

Protective Waterproofing Micro-Mortar

Characteristic

Flexocem is a cement mortar 2-component with a base of hydraulic binders, selected inert and specific additives (component A) and elastomeric emulsified resins (component B).

Mix the two components to then obtain a mixture with good workability; excellent adhesion to all concrete and masonry surfaces; easily applicable with a spatula even vertically, up to 2 mm of thickness with the first coat.

When the coat is ready it creates a low coating thickness flexible and impermeable to water, to CO₂ and to SO₂, frost resistant and to the action of thawed salts notoriously aggressive even for top quality concrete.

Application fields

FLEXOCEM flexible protection and impermeable to all concrete surfaces (pillars and road scaffold, external walls in general) plasters and cement screeds; furthermore it is indicated for the waterproofing of positive pressure of underground parking, tanks for the containment of water and for slightly aggressive substances, pipelines, pools and for the waterproofing or for the remaking of the waterproof of small terraces.

Surfaces preparation

- The surfaces, have to appear dry, solids, stables and dust and dirt free. Eventual traces of oils, fats, moulds, pieces posting away or not anchored, must be removed. Make diligently an accurate cleaning of the concrete removing the deteriorated parts or the pieces posting away, up to arrive to the solid substrate, resistant and rough.
- Imperfections, irregularities over to 2 mm or degraded area have to be rebuild and repaired in advance.
- Apply on humid surfaces but water free.

Concrete Preparation

- Pour FLEXOCEM component B (liquid) into a clean container and add FLEXOCEM component A (powder) whilst stirring.
- Accurately and slowly mix for few minutes, up to achieving a homogeneous mix and lump free, taking particularly care to remove from the walls and the bottom of the container the powder not really disperse.
- For the blending use a mechanical shaker (birch drill) with a low laps number to avoid an excessive incorporation of air in the mix.
- Avoid to prepare the mix manually.

Application methods:

- It is advisable to apply the first coat with a brush with fluid consistency with the mixing rate A + B = 2.5:1, having the care to cover well all the surface to be treated. After at least 5 hours (at 20°C) proceed with the following applications with spatula or brush with a max thickness of 2 mm by layer, waiting between one application and another the necessary time to let the previous coat to dry off.



- For spatula applications, during the preparation of the mix, it will be measured the component A (powder) to the component B (liquid) up to achieving a mix of homogeneous consistency (about A:B = 3:1).
- In case of application on microcracking supports or on particularly deformable structure, it is advisable to drown between the first and the second coat a reinforcement grid (of an appropriate weight) in glass or synthetic fibre, alkali-resistant.

PLEASE NOTE: FLEXOCEM can't be applied on oozed supports or with coming water. Therefore block eventual water infiltration with MICROBLOC.
FLEXOCEM can't be use in negative push.

PLEASE NOTE: Do not add any water, inert and binders (cement, lime, gypsum, etc.) to the product.

Technical data:

Component A:

- Appearance Grey / White colour powder
- Granulometry 0 – 0,6 mm
- Packaging Bag of 18 Kg

Component B:

- Appearance White liquid
- Density about 1,03 Kg / l
- Packaging Tank of 6 Kg

- Mixing Ratio 3 : 1 Plastic consistency (spatula)
2,5 : 1 Semi fluid consistency (brush)
- Mixing time (drill 300 laps/min) about 3 minutes
- Specific weight of fresh mortar about 1.650 Kg / m³
- Usage time (Pot life 20°C, 60% U.R.) about 30 minutes
- Application temperature from + 5°C up to +30°C
- Max thickness each coat 2 mm
- Waiting time between the two coats about 5 hours

Final Performance:

- Adhesion to concrete (28gg) 1,8 N / mm²
- Consumption 1,65Kg (A+B) / m²for mm of thickness

PLEASE NOTE: The data above reported is only for reference to laboratory tests to humidity and constant temperatures. The same can change in relation to the supports and to the building site thermo hygrometric conditions.

Please note:

- The filling up of pools, tanks, pipeline, can happen only after 3-4 days from the application.
- Avoid water coming in positive for 3 days.
- Do not make carryovers with thickness more than 2 mm per coat
- Do not make any addition or dilution to the product. The usage time of the mix is about 30 minutes to 20°C, therefore prepare only the quantity that can be apply within this period of time.
- Do not apply on frozen supports, on a way to thaw, or with freezing risk within the following 24 hours.
- Do not apply in full sunlight on overheated surfaces and in presence of strong wind.
- Protect from rain at least 6 hours from posing.