

Ready-to-use cement-based mortar which is strongly adhesive to the substrate, waterproof even in thin layers

Description

Betonfix 300 is a ready-to-use cement-based mortar which is strongly adhesive to the substrate, waterproof even in thin layers, quick and easy to apply. Adaptable to small deformities in the structure. It does not contain chlorides or aggressive agents which could cause corrosion. It is a perfect sealing agent for porous surfaces and cracks in the substrate.



Uses

Betonfix 300 is used for waterproofing structures with positive water pressure (tanks, tubs, water purifiers installations, reservoirs, flower boxes, canals) and with negative one (galleries, lift shafts, underwater rooms). It is also used to waterproof retaining structures.

Application

Before applying:

- Proceed to the creation of channels and collection systems and evacuation at points of arrival of water in case of sealing against the inside walls of earth-lift wells and hydraulic structures subjected to negative pressures in general.
- In case of seepage of water concentrated to proceed with the closing hydraulic mortar Betonfix WW.
- In the case of generalized seepage of support, apply directly on the surface Betonfix WW.

Particular attention should be paid to the preparation of media:

- The existing coatings must be controlled, clean (for installation on tiled floors with solution P) and mechanically prepared to reach a background sound and adherent. In case of poor adhesion to the substrate, must be removed. Any holes or irregularities of the substrate must first be repaired with suitable Kimia products.
- In the case of degraded media check the depth of degradation and repair. The concrete castings, properly completed, must be structurally sound (the tensile pull off the concrete must be > 1.5 MPa). Each party posting and not equipped with sufficient mechanical properties to be removed. To remove dust, existing coatings, grease, rust, release agents, paint, cement laitance and any other substance or material which may affect the adhesion of subsequent coatings, clean the substrate thoroughly by sandblasting, Jetting to high pressure, brushing.
- Deep and extensive irregularities (gravel nests, sbordature between jets etc.) must first be resolved.
- The connections between the wall and floor, in the case of sealing operations in the presence of negative hydraulic pressure, will be shelled by fitting.
- In the presence of joints, undertake appropriate course of rehabilitation and waterproofing.
- Any critical points of contact between substrate and collection wells, before being sealed, be subject to removal of the tiles, cleaning and possible reconstruction of the outer edges of the couplings.

Before applying wet saturation treatment area and eliminate, at the casting, any standing water.

For the preparation of the product used 5-6 litres of potable water or, alternatively, Kimitech ELASTOFIX per pack of 20 kg Betonfix 300.

Mix Betonfix 300 for about 5 minutes with suitable mechanical mixers, having the advice to introduce the first three quarters of fluid needed and then pour the product continuously and the remaining liquid to obtain the desired consistency.

Once the dough is smooth and no lumps, making the mixture for 10 minutes and apply with a brush, trowel or airless spray pump. In the work of shaving and waterproofing of swimming pools, bathtubs, arming the product with net Kimitech 350; applications for media subjected to small deformations, Betonfix arm 300 with cross woven fibers Kimitech 120. For applications in past successes, always working wet on wet.

Characteristics	Value
Appearance	Powder
Colour	grey e white
Apparent specific weight UNI 9446	0,92 ± 0,1 g/cm ³
Hazard classification 1999/45/CE e 67/548/CEE	Irritant
Maximum inert material size UNI EN 1015-1	0,5 mm
Apparent volumetric mass of wet mortar UNI EN 1015-6	1800 Kg/m ³
Consistency UNI 7044/72	40 - 50 %
Pot life UNI EN 1015-9	80 ± 20 mins
Setting time (start) UNI EN 196-3	175 ± 30 mins
Setting time (end) UNI EN 196-3	270 ± 30 mins
Minimum application temperature	+ 5 °C
pH of mixture	12 ± 0,5
Maximum recommended total thickness	5 mm

Characteristics of the hardened product	Value
Compression strength 1 day UNI EN 12190	> 5,7 MPa
Compression strength 7 days UNI EN 12190	> 18,4 MPa
Compression strength 28 days UNI EN 12190	> 35 MPa
Flexural strength 1 day UNI EN 12190	> 1,7 MPa
Flexural strength 7 days UNI EN 12190	> 4,5 MPa
Flexural strength 28 days UNI EN 12190	> 6,9 MPa
Concrete adhesion (UNI EN 1542)	> 1,5 N/mm ²

Packaging

20 kg multilayer polythene bag. 1,200 kg pallets.

Coverage

1.5 kg/m² per mm thickness.

Storage

Protect from humidity. Store the product in a dry, sheltered place. Stored in these conditions and in unopened containers, Betonfix 300 remains stable for 12 months.

Warning

Product for professional use. Do not remix by adding water to the product when it has already started to set. Before using, check bags have not been damaged, and do not use the product if there are any lumps.

Do not apply at temperatures below +5 °C, when it is about to rain or on surfaces in direct sunlight. Once work is completed, wait at least 7 days before refilling the waterproofed items with water or other liquids. The equipment used to prepare and lay Betonfix 300 must be wash with water before hardening. The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product. It is the customer's responsibility to check that this data sheet is still effective and has not been replaced with a more recent version, and that the product is suitable for the intended use.

