



Betonfix 300 SR

ST1-0219

Osmotic sulphate resistant waterproofing mortar used to waterproof tanks and basements, even in counter-thrust.

DESCRIPTION






Betonfix 300 SR is an osmotic waterproofing sulphate-resistant cement-based mortar, to use even in thin layers, It is a perfect sealing agent for porous surfaces and cracks in the substrate.

It is flexible, it can adapt to small deformations of the structure and it is suitable for waterproofing surfaces that come into contact with: wastewater and groundwater containing sulfates and sewage environment.

USES

Betonfix 300 SR is used for the waterproofing of structures with positive water pressure (tanks, tubs, water purifiers installations, reservoirs, flower boxes, canals) and with negative one (galleries, lift shafts, underwater rooms).

APPLICATION

	Manual application		Curing time Normal: 175 ± 30 mins
	Mechanical devices application		Mixing water: 5-6 lt/ 20Kg
	Brush or paint roller application		

In the case of waterproofing from the inside of underground walls, wells and structures subjected to negative hydraulic pressures in general, proceed to the creation of channels and systems for the collection and evacuation .

In the presence of concentrated water seepage, pick out the point of seepage, clean around it and apply hydraulic mortar **Betonfix WW**. If there are general seepage in the substrate, apply **Betonfix WW** directly on the surface to allow the product to knead with the exudation of water and then block the porosity.

Particular attention should be paid to the preparation of substrates:

- The existing coatings must be controlled, clean (for installation on tiled floors with **Soluzione P**) and mechanically prepared to reach a sound and adherent ground. In case of poor adhesion to the substrate, coatings must be removed. Any holes or

irregularities of the substrate must first be repaired with suitable Kimia products.

- In the case of degraded substrate check the depth of degradation and repair through cortical repair cycle.
- The concrete castings, properly completed, must be structurally sound (the tensile "pull off" strength of concrete must be >1.5 MPa). Remove each detached part or every part having poor mechanical properties. Remove dust, existing coatings, grease, rust, release agents, paint, cement laitance and any other substance or material which may affect the adhesion of coatings by sandblasting, high pressure, washing or brushing.
Deep and extensive irregularities (gravel nests, leaks between castings etc.) must first be resolved.
- The connections between wall and floor, in the case of waterproofing interventions in the presence of negative hydraulic pressure, will be treated by means of connecting gutters.
- If there are joints, opt for a proper renovation cycle and waterproofing.
- Any critical contact points between screed and collection wells, before being sealed, will be subject to removal of the tiles, cleaning and eventual reconstruction of the outer edges of the connecting joints.

Add 5-6 lt of water to each bag of **Betonfix 300 SR**. To increase flexibility and to get a trowable two-component system, **Betonfix 300 SR** can be mixed with **Kimitech ELASTOFIX**.

Saturate with water the area to be treated, taking care to eliminate, at the time of casting, any pools of water.

Stir the product for about 5 minutes with a cement mixer or, in case of small quantities, with drill and whisk. Add 3/4 of the water or latex and then, gradually, the product until you get the right consistency.

Once obtained a homogeneous mixture free of lumps, make it rest for 10 minutes and then apply with a brush, spatula or spray with an airless pump.

Reinforce the coat using **Kimitech 350** glassfiber net.

PACKAGING

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

CONSUMPTION

1,5 Kg/m²/mm.

PACKAGING

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

STORAGE

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

Characteristics	Value
Appereance	Powder
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-	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 EN 12190	@ 1 day > 5,7 Mpa @ 7 days > 18,4 MPa @ 28 days> 35 MPa
Flexural strength EN 12190	@ 1 day > 1,7 Mpa @ 7 days > 4,5 MPa @ 28 days> 6,9 Mpa

Characteristics	Limits EN 1504-2 Covering C, principles MC and IR	Value
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Adhesion to concrete UNI EN 1542	Flexible systems Without trafficking >0,8 Mpa; with trafficking >1,5 Mpa. Rigid systems Without trafficking >1 Mpa; with trafficking >2 MPa.	> 0,8 N/mm ²
Permeability UNI EN ISO 7783-2	Class I (permeable to vapour) Sd < 5 m Class II 5 m ≤ Sd ≤ 50 m Class III (no permeable to vapour) Sd > 50 m	Class I

Characteristics	Limits EN 1504-2 Covering C, principles MC and IR	Value
Capillary absorption and permability to water UNI EN 1062-3	< 0,1 Kg/m ² ·h ^{0,5}	< 0,1 Kg/m ² ·h ^{0,5}
Reaction to fire class	Value declared	A1

WARNING

Product for professional use.

Given the possibility that different supplies of the same raw materials have slightly discordant colors, including a lot of production and the other may be minor color variations that do not affect in any way the technical performance of the products supplied.

Before using, check bags have not been damaged, and do not use the product if there are any lumps.

Do not remix by adding water to the product when it has already started to set.

The equipment used for the preparation and installation of the product must be cleaned with water before hardening. For later applications always work wet on wet.

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 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