WATERBLOCK ST/2K

Two component waterproofing & protective system
Brushable cementitious mortar

Properties

WATERBLOCK ST/2K consists of two components, components A and B, while mixed in a 25:8 ratio they produce the final application product. It can be applied on masonry, coating and concrete surfaces.
Component A **WATERBLOCK POWDER**: Inorganic dry mortar based on and chemical additives.
Component B **WATERBLOCK RESIN**: Resin, elastomeric emulsion which replaces mixing water.
After hardening **WATERBLOCK ST/2K** offers a completely waterproofing coating. The replacement of water with **WATERBLOCK RESIN** results in:

- Improvement of elasticity over regular **WATERBLOCK** which is mixed only with water (not of the same level with **WATERBLOCK FLEX**)
- Grip improvement and therefore additional durability over negative water pressure.
- Sealed surface which does not allow even the slightest water penetration.
- **WATERBLOCK ST/2K** is perfectly suitable for continuous water contact
- Offers unlimited protection from water, because it is an inorganic material that does not age.
- Suitable for potable water tanks, because it does not contain toxic substances.

Applications

Basement Walls	Porches
Water tanks	Terraces
Swimming pools	External (no plastered) concrete surfaces
Channels	

WATERBLOCK ST/2K is suitable for the following:

- Ideal for waterproofing in cases of simple dampness and even water under pressure.
- Can be used for waterproofing basements on the internal side because it can withstand **negative pressures** of water due to high bonding to substrate.

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- Protection or restoration of concrete surfaces from frost and corrosive influence from external chemical assault

Preparation of substrate

1. Clean surface of any wooden formwork oil remains, loose materials, old plaster remains, dust, etc.
2. Seal any water leakage points, using the fast-setting **WATERFIX** cement.
3. Fill and smoothen any concrete cavities by using the ready-mixed resin improved cement mortar **VIMACRET** or **VIMACRET RAPID**.
4. Cut out wooden murel and pins around 3 cm into the concrete and fill the craters in the above-mentioned way. Follow the same procedure for the construction joints.
5. Round the corners where the floor meets the wall with **VIMACRET** or **VIMACRET RAPID**.
6. If the substrate is not wet, wet well avoiding any swash water.
7. Do not use **WATERBLOCK ST/2K** in temperatures below + 5° C or over + 35° C (air and substrate).

How to use

WATERBLOCK POWDER is slowly added in the **WATERBLOCK RESIN** while stirred till the formation of a homogenous pulp, suitable for brush application. After 5 minutes (the 'curing' time of fresh mortar), stir the mixture again and it will be ready for use.

Recommended mixing ratio:

WATERBLOCK POWDER	**WATERBLOCK RESIN**
1 bag: 25 kg	1 vessel: 8 kg

Overall, you will need 2-5 coatings, consumption: around 1 kg per coat (thickness: 0.5mm). Higher thickness per coat will produce crackings caused by setting shrinkage. Make sure that the coat has dried before applying a new one.

WATERBLOCK ST/2K can be applied with a spatula, providing that a small reduction in **WATERBLOCK RESIN** will offer the proper workability.

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Consumption

Water Assault	Coatings	WATERBLOCK ST/2K (A+B) kg/m^2	Thickness
For ground moisture	2	3,0 – 3,5	thickness 1.5 mm
For water without pressure	3	4,0 – 4,5	thickness 2.0 mm
Water under pressure	4	4,5 – 5,0	thickness 2.5 mm

Protection

A freshly coated surface must be protected from exposure to high temperatures or wind (danger of dehydration), rain or frost. In addition, you must make sure that the hardened coat of WATERBLOCK ST/2K is protected as its small thickness makes it vulnerable to mechanical stress: for example, in set floors the waterproofed by WATERBLOCK ST/2K surface must be protected by a cement mortar layer.

Attention !!!

Water pressure, especially negative pressure on the surface treated with **WATERBLOCK ST/2K** can be applied at least after three days in the case of positive water pressure and up to seven days in the case of negative water presure, when **WATERBLOCK ST/2K** will have obtained the required strengths.

Static Adequacy of Bearing Elements

In cases of water under pressure, the waterproofing coat bearing element (wall, floor, etc.) should be properly assessed regarding its static suitability for water pressure and lift.

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Tool Cleaning

Tool must be immediately cleaned with water after use

Storage

WATERBLOCK POWDER storage should take place in dry areas and in sealed bags for at least 12 months

Packaging

WATERBLOCK POWDER is offered in white and grey color in 25 kg bags.
WATERBLOCK RESIN is offered in 8 kg vessels

Protection

WATERBLOCK POWDER contains cement and is considered irritative due to its alkaline reaction to water

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