

# REBOTEC® NANOTECHNICAL WATER REPELLENT

Waterproofing Additive for concrete, mortar and cementitious grout



## 1. DESCRIPTION

Rebotec admix powder is a waterproofing additive for concrete and mortar.

## 2. USES

Beams, baldrames, masonry laying, coating mortars on floors and walls, plaster, slabs, slope walls, buried structures (water tanks, reservoirs and swimming pools), machined, prestressed and waterproof reinforced concrete, etc.

## 3. SUPPORTS

Cement-based masonry and supports.

## 4. USE LIMITS

Do not apply on release surfaces. Examples: paints, oils, asphalt blanket, acrylic blanket, smooth surfaces without adhesion, resins in general and other waterproofing agents. Maximum opening values in cracks supported by Rebotec: up to 0.3 mm without pressure, in reservoirs or monolithic structures without cracks or cracks up to 125 mca (12 Bar)

## 5. COMPOSITION

Pozzolone, soluble salts, HDF SCI formula kept under industrial secret.

## 6. CONSUMPTION

- Rebotec powder additive: from 0.8% to 1.5% in relation to the total weight of the concrete and 8% of the weight of cement alone in other applications. Consult the technical department to verify the proper dosage, additional information and best concrete performance for your project.

Note: consumption may vary according to the line, thickness and expected resistance for the application.

## 7. RECOMMENDATIONS

Application temperatures: greater than 5°C, for substrates with extremely high temperatures, inform the manufacturer before application, for example: application in dams that generate high hydration heat above 60°C;

- When using in sand and cement mortar (subfloor), do not apply on substrates with temperatures above 25° C, if necessary cool the slab by moistening;
- In basements, ensure ventilation to avoid condensation;
- Do not apply on soaked substrates;
- To ensure waterproofing, use the line recommended by the standard.

## 8. BENEFITS

Appearance: solid – grayish white powder;

Odor: odorless;

pH: 12 - 13;

Relative density: 1.9 – 2.1 g/cm<sup>3</sup>;

Flammability: non-flammable solid;

Solubility: insoluble.

## 9. SUPPORT PREPARATION

- The substrates must be healthy, clean, resistant, without milk or form release agents (high pressure washing or sandblasting is recommended);
- Remove non-resistant sections;
- New concrete must be stabilized (28 days);
- Correct planimetry defects greater than 3 cm with subfloor added with Rebotec;

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- Fill in holes and irregularities before applying plaster or any coating added with Rebotec.

### 10. APPLICATION

- Mix Rebotec Impermeabilizante in concrete, subfloor, plaster, bricklaying mortar and adhesive mortar using a concrete mixer or electric mixer;
- Wet the support, apply as usual as long as it follows the standard standard;
- Depending on the application, it can be reinforced using anti-alkaline fiberglass mesh, nylon screens;
- Finish with a trowel or sponge, according to the desired texture, after waiting for the appropriate maturing time;
- Moisten the finished surface 6 hours after application and for 4 days.

The application of the REBOTEC powder additive assumes, for the purposes of obtaining the expected results, the following assumptions:

- Rationalization of traces (mortar or concrete), taking into account aspects related to the mechanical characteristics of these mixtures in the hardened state, compatible with what is recommended by the Brazilian Standards, for each case;
- The homogenization, application and curing of the mixtures within the processes for which they are intended (mortars and concrete), in an adequate and compatible manner with the relevant Brazilian Standards, for each case;
- The performance compatibility between the sub-systems where the additives will be applied (superstructures, foundations, mortar coatings in general), in relation to the other constructive sub-systems adhered to them (notably the substrates);
- Compliance with other relevant Technical Standards, Engineering Projects, Technical Engineering Reports, Technical Opinions/Reports, guidelines arising from a qualified Technical Manager and good engineering practices;

### 11. WARRANTIES

Rebotec has strict quality control of the waterproofing additive in Rebotec powder. This product has undergone the necessary tests to ensure its efficiency. To ensure the guarantee, it is necessary to correctly follow the method of use in each application. Rebotec is guaranteed against absorption. Leaks due to structural defects will not be covered by the company. Structural defects such as: cracks, cracks or lack of strength must be repaired before waterproofing.

REBOTEC is responsible for the product warranty as long as the following items are checked:

1. Execution of the work from start to finish with REBOTEC products;
2. Monitoring of a Civil Engineer responsible for the work, registered with CREA to issue a report attesting to the proper use of the product, according to the technical guidelines described in each package and on the website [www.rebotecbrasil.com.br](http://www.rebotecbrasil.com.br);
3. Monitoring the work of a REBOTEC representative in Brazil or abroad; Client vs. Company laboratory confrontation.

### 12. DURABILITY

The Rebotec additive has its repellent and waterproofing effect during the life of the system in which it was used and after being added to the substrate, it is no longer possible to remove it. Or neutralize it.

### 13. PRESENTATION

Sales units: 2, 4 and 20 kg bucket and 10 kg paper bag. SUPPORTS, Masonry and cement-based supports.

#### 1. LIMITS OF USE

Do not apply on release surfaces examples: paints, oils, asphalt, acrylic, smooth surfaces without adhesion, resins in general and other waterproofing.

#### 2. COMPOSITION

Pozzolan, soluble salts, industrial talc, formula HDFSCF002 kept under industrial secrecy.

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## 3. CONSUMPTION

- Maximum 8% Rebotec over the amount of cement used, for example wet areas (toilets, swimming pools, tanks, retaining wall, roofless slab, baldrame, shoes etc.).
- Minimum 2% Rebotec on the amount of cement used, for example dry plaster.

NOTE: Yield may vary based on application line and thickness.

## 4. RECOMMENDATIONS

Application temperatures 5 °C to 25 °C.

- Do not apply on substrates with temperatures above 25 °C.
- In basements ensure ventilation to prevent condensation.
- Do not apply on soaked substrates.
- To ensure waterproofing use the line recommended by the Waterproofing standard.

## 5. PROPERTIES

Appearance: Grayish white solid (powder).

Odor: Odorless.

pH: 12-13.

Relative density: 1.9 - 2.1 g/cm<sup>3</sup>.

Absolute Specific Mass: 2.2 - 2.7 g/cm<sup>3</sup>.

Flammability: non-flammable.

Solid Solubility: insoluble.

NOTE: Results have been obtained from tests performed under standard conditions and may vary depending on application conditions.

## 6. SUPPORT PREPARATION

Substrates must be clean, resident, free of debris or release (high pressure or sandblasting is recommended).

- Remove non-resistant sections.
- New concrete must be stabilized (28 days).
- Fix planimetry defects greater than 3cm with Rebotec additive subfloor.
- Fill holes and irregularities before applying subfloor, plaster or any additive coating with Rebotec.

## 7. APPLICATION

Mix Rebotec in the traces of concrete, subfloor, plaster, bricklaying mortar, cementitious and cementitious grout with concrete mixer or electric mixer.

- Wet the support, apply as usual as long as it follows the standardized standard.
- Depending on the application can be reinforced using anti-alkaline fiberglass mesh, nylon screens.
- Finish with a trowel or sponge, according to the desired texture, after waiting for the appropriate maturation time.
- Wet the finished surface 6 hours after application during 4 days.

## 8. PRESENTATION

Sales Units: Buckets of 2, 4 and 20 kg.

10 kg paper bag.