

## ARK - WATERPROOFING

### WATER REPELLENT

Waterproofing Additive for concrete, mortar and cementitious grout



#### 1. DESCRIPTION

ARK WATERPROOFING 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 ARK

WATERPROOFING: 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

ARK WATERPROOFING 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 ARK WATERPROOFING;
- Fill in holes and irregularities before applying plaster or any coating added with ARK WATERPROOFING.

## ARK - WATERPROOFING

### WATER REPELLENT

#### Waterproofing Additive for concrete, mortar and cementitious grout

#### 10. APPLICATION

- Mix ARK WATERPROOFING 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 guidelines.
- 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 ARK WATERPROOFING powder additive assumes, for the purposes of obtaining the expected results, the following assumptions:

- Proper trace rationalization (mortar/concrete), considering mechanical properties and compliance with relevant standards.
- Homogenization, application, and curing of mixtures following intended processes.
- 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

Nano Labs And Co has strict quality control of the waterproofing additive in ARK WATERPROOFING. 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. ARK WATERPROOFING 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.

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

1. Execution of the work from start to finish with ARK WATERPROOFING products.
2. Monitoring of a Civil Engineer responsible for the work, registered with CREA to issue a report attesting the proper use of the product, according to the technical guidelines described in each package and on the website [www.nanolabsco.com](http://www.nanolabsco.com)
3. A Nano Labs And Co representative oversees the project.

#### 12. DURABILITY

ARK WATERPROOFING provides permanent repellent and waterproofing effects throughout the life of the system. Once added to the substrate, it cannot be removed or neutralized.

#### 13. PRESENTATION

Sales Units:

- 2.5-gallon bucket
- 5-gallon bucket

#### 1. LIMITS OF USE

Do not apply on release surfaces such as: 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.

## ARK - WATERPROOFING

### WATER REPELLENT

#### Waterproofing Additive for concrete, mortar and cementitious grout

#### 3. CONSUMPTION

- Maximum 8% ARK WATERPROOFING over the amount of cement used, for example wet areas (toilets, swimming pools, tanks, retaining wall, roofless slab, baldrame, shoes etc.).
- Minimum 2% ARK WATERPROOFING 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 ARK WATERPROOFING additive subfloor.
- Fill holes and irregularities before applying subfloor, plaster or any additive coating with ARK WATERPROOFING.

#### 7. APPLICATION

Mix ARK WATERPROOFING 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 guidelines.
- 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:

- 2.5-gallon bucket
- 5-gallon bucket