

HIDROSTOP RESIST

CEMENT-BASED ONE COMPONENT WATERPROOFING MORTAR

1. DESCRIPTION

HIDROSTOP RESIST is a cement-based waterproofing mortar, premixed and resistant to positive and negative water pressures, bearing approval by EPAL for direct contact with potable water.

HIDROSTOP RESIST is a mortar formulated from mixed binders, siliceous aggregates and additions.

2. FIELD OF USE

HIDROSTOP RESIST is a mortar particularly formulated for waterproofing non-deformable structures, such as drinking water reservoirs, buried constructions, cellars, underground car parks, elevator shafts, foundations and retaining walls. For it is resistant to negative water pressure it is also suitable for waterproofing from the inside of buried walls.

It is suitable to be applied on cementitious substrates such as concrete, screed, plaster, ceramic bricks and concrete block.

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Colour	Grey	-
Granulometry	< 1,0 mm	-
Paste product	Value	Standard
Mixing water	20,0 ± 1,0 %	-
Theoretical consumption	1,4 kg/m ² /mm	-
Hardened product	Value	Standard
Flexural strength at 28 days	≥ 5,0 N/mm ²	EN 1015-11
Compressive strength at 28 days	≥ 22,0 N/mm ²	EN 1015-11
Density	1500 ± 150 kg/m ³	EN 1015-10
Adhesion to brick and block / Mode of fracture	≥ 0,5 MPa / A	EN 1015-12
Capillarity	Class W2	EN 1015-18
Permeability to water vapour μ	≤ 15	EN 1015-19
Reaction to fire	Class A1	EN 998-1
Thermal Conductivity	0,61 W(m/K) (P=50%)	NP EN 1745
Changes in potability	Non-existent*	NP EN 1745

* Certificate of compatibility with potable water issued by EPAL. Report No. 03/2015, registration No. 156 and 157 of February 20, 2015.

HIDROSTOP RESIST

CEMENT-BASED ONE COMPONENT WATERPROOFING MORTAR

4. APPLICATION

a) Substrate preparation

The substrates must be clean and free of dust, dismantling fluids, efflorescences and any other materials that may affect adhesion. They must also be properly levelled, straightened and cohesive. If necessary, wash the substrates with a water/sand jet.

On very absorbent substrates, moistening should be carried out before application. However, the substrates should not be saturated with water at the time of application.

The substrate must be levelled so as to guarantee homogeneous and continuous application of **HIDROSTOP RESIST** without relevant variations in thickness. If necessary, levelling is recommended with **REDUR MAX FORCE** or **PLAN FORCE** Screed, or products from the **B-REPARA** product line-up.

If the substrate is not regular, any irregularities or concavities must be filled in advance with a mortar appropriate to the type of substrate and the thickness of the filling, followed by the application of **HIDROSTOP RESIST** in the recommended thickness.

On bricks and concrete blocks it is recommended to apply beforehand a high performance plaster layer of the **REDUR MAX FORCE** type.

Treat specific spots where necessary.

b) Preparation of mixture

HIDROSTOP RESIST must be mixed with the appropriate amount of water (5.5 to 6.0 litres per 25 kg bag), in small quantities and using an electric mixer, until a homogeneous and lump-free paste is obtained.

Allow the mixture to sit for 3 to 5 minutes and mix again until a homogeneous and fluid mixture is obtained.

c) Application - Bonding

HIDROSTOP RESIST - application should be made using a brush or a notched trowel (up to 3 mm).

HIDROSTOP RESIST - apply at least two layers, each with a maximum thickness of 2 mm.

Apply each layer perpendicularly to the previous one and with an interval of at least 4 to 5 hours. Apply three layers in cases of water tanks or in places under high pressure.

Should any paint or other coating is to be applied, wait at least 4 days before doing it.

In water tanks, wait at least 14 days before filling with water.

Existing structural joints in the substrate, such as expansion joints, must be observed. These must be made watertight by applying a suitable sealant.

When waterproofing buried constructions with the waterproofing on the face exposed to water (positive pressure), the height of the waterproofing must exceed the surface of the ground by at least 30 cm.

HIDROSTOP RESIST

CEMENT-BASED ONE COMPONENT WATERPROOFING MORTAR

d) Restrictions

HIDROSTOP RESIST is not suitable for application on deformable substrates where there is a high risk of cracking. For this purpose, **HIDROSTOP FLEX** is recommended.

Because **HIDROSTOP RESIST** is a hydraulic mortar, it should not be applied at ambient and substrate temperatures below 5 °C and above 30 °C.

Its curing time is 28 days.

Ventilation of the space should be ensured in underground locations.

HIDROSTOP RESIST should not be exposed to direct U.V. radiation, so coating with the waterproofing membrane **HIDROSTOP ELÁSTICO/ELÁSTICO FIBRAS**, or other suitable type of coating is recommended. If exposed to sun or frost, the surface must be protected until the coating is applied.

e) Complementary Advices

- The mixing water must be free of any impurities (clays, organic matter, etc.) and drinking water should be preferably used;
- No mortar that has started its open time should be applied. Do not soften mortars by adding water after preparation;
- Do not add any other products to the mortar. **HIDROSTOP RESIST** should be applied as it is shown in its original packaging;
- Clean the tools with water;
- Do not use in an acid medium with a pH lower than 5;
- Waterproofing solutions must be carefully considered to define the most appropriate system for each situation taking into account the degree of exposure to water, expected load, soil, water and construction characteristics.

5. PACKAGING AND VALIDITY

Packaging

25 kg paper bags in plasticized pallets of 60 bags.

HIDROSTOP RESIST

CEMENT-BASED ONE COMPONENT WATERPROOFING MORTAR

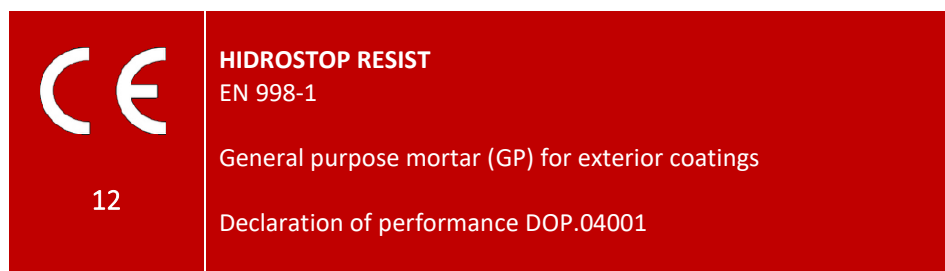
Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and abundantly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.



Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

Revision of January 2019
FT.04001.01 EN