

HIDROSTOP FLEX

ONE COMPONENT FLEXIBLE WATERPROOFING MORTAR

1. DESCRIPTION

HIDROSTOP FLEX is a cement-based, flexible, waterproofing mortar, bearing approval by EPAL for direct contact with potable water.

This is a premixed, one component product, requiring only on site addition of water for its application.

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

2. FIELD OF USE

HIDROSTOP FLEX is a waterproofing mortar with improved flexibility and resistance to cracking, making it especially suitable for waterproofing structures that may be subject to moderate deformations such as balconies, terraces, pools and reservoirs of drinking water, roofs and foundations.

HIDROSTOP FLEX must always be protected against exposure to U.V. radiation. **HIDROSTOP FLEX** is also suitable for waterproofing walls and floors in damp areas (such as shower rooms, bathrooms, kitchens, SPAs and others) before laying any ceramics.

HIDROSTOP FLEX is suitable to be applied on hydraulic mortars or concrete. Due to its high adhesion it can also be applied directly on ceramic coverings, provided these are levelled and adherent.

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Colour	Grey	-
Granulometry	< 0,5 mm	-
Paste product	Value	Standard
Kneading water:		
- Application with trowel	17,0 ± 1,0 %	-
- Application with roller or brush	30,0 ± 1,0 %	-
Working time	60 min	-
Theoretical consumption	1,5 kg/m ² /mm	-
Hardened product	Value	Standard
Drying time between layers	4 hours	-
Time for ceramic application	48 hours	-
Initial adhesion	≥ 0,5 N/mm ²	EN 14 891
Waterproofing under pressure (1.5 bar positive hydrostatic pressure for 7 days)	1,5 Bar	EN 14 891
Crack bridging	0,75 mm	EN 14 891

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

4. APPLICATION

a) Substrate preparation

The substrates must be clean and free of dust, release oils, efflorescences and/or any other materials that may affect the adhesion. It is recommended, whenever possible, to wash the surfaces with high-pressure water.

Do not apply on highly dry or saturated substrates. If necessary, moisten or ventilate the substrate.

The substrate must be levelled so as to guarantee homogeneous and continuous application of **HIDROSTOP FLEX** (without relevant variations in thickness).

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

Expansion joints and cracks with gaps larger than 0.5mm should be treated with **HIDROSTOP Banda**, backer rod and mastic.

b) Preparation of mixture

HIDROSTOP FLEX must be mixed with the appropriate amount of water (4.5 to 5.0 litres for application with a trowel and 6.5 to 7.0 litres for application with a roller or brush for each 20 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

HIDROSTOP FLEX - application should be made using a brush, roller and / or a notched trowel (up to 3 mm).

HIDROSTOP FLEX must be applied in a first fluid layer by roller (with 35% water) and then two crossed layers of at least 1mm to 1.5mm each with a **MICRO ART REDE 90** mesh between them. The mesh must be laid on the second layer and completely covered with the third layer until it is totally unnoticeable. Wait at least 5 hours between layers.

The connections between horizontal and vertical surfaces must be reinforced with **HIDROSTOP Banda/Canto Interior/Canto Exterior**. These reinforcements must be applied between the second and third layers of **HIDROSTOP FLEX** and superimposed on the mesh.

Apply the coating 48 h after application of **HIDROSTOP FLEX**.

For filling swimming pools, wait at least 7 days.

d) Restrictions

HIDROSTOP FLEX must always be coated for protection from U.V. rays and weather, which can accelerate deterioration.

Because **HIDROSTOP FLEX** 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.

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Ventilation of the space should be ensured in underground locations.

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 FLEX** 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

20 kg paper bags in plasticized pallets of 60 bags.

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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.

 20	HIDROSTOP FLEX EN 14891 Waterproofing products for liquid application, resistant to contact with chlorine water (CM-P) Declaration of performance DOP.04002
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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.

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