

INTRODUCTION

DESCRIPTION

CAPILASIL HeH2O is a 7% concentration emulsion of silanes/siloxanes in the aqueous phase, developed specially for waterproofing and treatment against rising damp of porous building materials such as concrete, brick and white stone.

Based on water, **CAPILASIL HeH2O** is very environmentally friendly.

The product polymerises on alkaline substrates (e.g. fresh concrete), and on neutral substrates (e.g. bricks).

SCOPE

- Making surfaces water-repellent. (ask for the technical data sheet)
- Treatment against rising damp.

For treatment of brickwork, stone, concrete blocks, etc.

For media with a nitrate content of more than 3% (e.g.: former stables), it is advisable to use **CAPILASIL HS**. To establish this percentage, samples can be analysed in our laboratory. Talk to us.

ADVANTAGES

- Contains no organic solvents and does not attack synthetic insulation materials.
- High resistance to alkalis.
- The medium can be slightly damp.
- Odourless
- Dries without a bond
- Very high reduction of water absorption.
- Protection against erosion caused by water.
- No more efflorescence after polymerisation.
- Maintains thermal insulation powers and more cooling by the absorbed water.
- Maintains the permeability to water vapour of the treated walls.
- Invisible treatment. Prevents damage due to frost and thus the dangers of cracking.
- Central heating savings. Dry materials have better thermal insulation properties than damp materials.
- Reduction of frothing, moulds and fungi due to rising damp.

DISADVANTAGES

As the product is water-based, water is added in the walls and therefore the final drying will take longer than for a treatment with **CAPILASIL 10**. This top-up with water, compared with **CAPILASIL 10**, can cause more efflorescence, until complete polymerisation of the system.

TECHNICAL CHARACTERISTICS

| IDENTIFICATION INFORMATION | |
|----------------------------|--|
| State | Liquid |
| Colour | Colourless |
| Density | 1040 kg/m ³ |
| Packaging | 25L cans 5L cans 1L bottles |
| Storage | 6 months in a dry place, protected from frost and without contact with the ground, in the sealed, original packaging. Never leave the product in direct sunlight. |
| Customs classification | 38 25 90 00 |
| APPLICATION INFORMATION | |

Refer to the legal notice at the end of the document.

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|-------------------------------|--|
| Consumption | 1.5 to 2L/metre run/10 cm thick wall Example : For a wall 35 cm thick, 5.25 to 7L/metre run are necessary. |
| Application temperature | +5°C min |
| Polymerisation time (at 20°C) | Immediately effective by the action of non-polar solvents. ± 3 months, depending on the nature of the medium |
| Drying out of walls | Treated walls can dry out very quickly in rooms that are not shut up during the work, without frames in place (air currents). For residential property, you must ensure that the property is well ventilated early on and the drying time can be from 6 to 12 months, or even more; this will depend on the following parameters: wall covering, rendering, tiling, anti-fouling paint. In cold periods, heat and ventilate. |

APPLICATION

MEDIUM AND PREPARATION

CAPILASIL HEH20 is suitable for all porous mineral media and therefore for almost all types of masonry.

If you are treating newly pointed brickwork, you must wait in the injection zone for at least 8 days, owing to the excessive alkalinity in cement-based mortars. If there is air lime in the mortar composition, wait at least 28 days.

These timings are also applicable for fresh concretes.

When using mortars based on natural hydrated lime without cement, you must wait for at least 2 months.

Floury media are hardened beforehand by treatment with **V 100** or **TEGOVAKON V** (silica esters - ethyl silicates) - stone hardener - in order to reconstitute the binder and achieve the original mineral structure.

For stonework and/or block masonry (concrete and terracotta): pickling of renderings in the injection zone for easy marking of the joints.

For plaster-based materials, talk to us.

USE

Ask for our explanatory data sheet "TECHNIQUE FOR INJECTING AGAINST RISING DAMP".

At a height of approximately 10 cm above inside floor level, drill holes 12 to 16 mm in diameter and spaced between 10 and 15 cm apart. These holes will slope down slightly and have a depth equal to the thickness of the wall, less 7 cm.

For non-porous stonework, injections will be made into the joints.

The distance between holes will also depend on the porosity of the medium, how the product is added and the type of wall (material) to be treated.

Add CAPILASIL HEH20 in the holes by infusion or under pressure. The pressure and injection time will depend on the porosity of the brick, the thickness of the wall and even the damp content of the wall. By infusion, the holes should be 20 to 30 mm in diameter (Note settlement. This is the least satisfactory method as it does not take account of cracks present in the medium. Talk to us).

Runs must be cleaned with **IMPRESIL** directly before polymerisation

AFTER INJECTION

Fill and plug holes with **MORTEX RAPID+**.

The damp-proof barrier is immediate after injection. Initially, it is the non-polar solvents which prevent capillary damp and, later on, it is the actual polymerisation of the product itself which will take place at the same time as evaporation of the solvents.

Refer to the legal notice at the end of the document.

The drying time of treated walls will depend on the percentage humidity already present before injection, the components of the walls and the ventilation of the room, as well as heating in cold periods.

Treated walls cannot be papered or covered with other finishes before complete polymerisation of the product and total drying out of the treated medium.

Treatments carried out more than 30 years ago are still behaving perfectly, which means we can say that injections performed in accordance with the rules of the art have every opportunity of being effective and giving very positive results over the working life of the buildings.

This method of injection can be considered as being the best solution for a treatment against rising damp.

MISCELLANEOUS

CLEANING

Any stains on tools and splashes are removed with clean water before the **CAPILASIL HeH2O** polymerises.

WARNINGS

As **CAPILASIL HeH2O** is in the aqueous phase, it can be diluted with rainwater or water from any other source. If the medium is too damp, the penetration of the product will be less thorough and will be diluted in the water contained in the medium and this will reduce its effectiveness.

Glazing and non-porous materials will be cleaned immediately with **IMPRESIL** with several applications, then washed and rinsed. Change cleaning cloths regularly, so that there is no longer any remaining residue.

ADVICE

Adhere to the installation protocols, according to the use of the product. Never use any product, other than those indicated in these specification sheets, to avoid any risk of the product not working.

Always carry out tests.

For the same site and the same type of product, always use products bearing the same batch number.

ENVIRONMENT

Eliminate waste in specialised collection sites.

SAFETY

Refer to the safety sheet that is available upon request or which can be viewed on www.beal.be

Protect your eyes with goggles and your skin against spray. (gloves and "ad hoc" clothing)

Rinse any splashes immediately with water.

At your disposal: measuring equipment before and after work. (see our terms and conditions)

LEGAL NOTICE

The notice, in particular, the recommendations for the application and use of the products, is provided in good faith and is based on the knowledge and experience that the Company, BEAL, has acquired to date about its products when they are properly stored, handled and applied under normal conditions. In practice, the differences between the materials, substrates and specific conditions on the site are such that this information or any written recommendation, or advice, given do not imply any warranty of merchantability other than the legal warranty against hidden defects. Under no circumstances can we be held liable, as the conditions of use always remain outside our control and above all assuming an application that is not compliant with our instructions. All suitability for use and application, data and information do

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CAPILASIL HEH20 BEAL PRODUCTS

Water-repellent to counter rising damp
In the aqueous phase

not release customers from the requirement to carry out their own checks and testing. All orders are accepted subject to the General Terms of Sale in force. It is essential that users refer to the most up-to-date version of the notice that relates to their product, which will be made available to them upon request.

Refer to the legal notice at the end of the document.

