

INTRODUCTION

DESCRIPTION

CAPILASIL HS is a colourless impregnating agent which makes materials water-repellent and protects them, while maintaining their water vapour permeability.

CAPILASIL HS is a solvent-based solution (non-polar solvent) based on oligomeric siloxanes with an active concentration better than 10% based on a 100% active material concentrate. **A hardening agent is added to the solution. This complex avoids the NO₃ chain present in the wall increasing the humidity by capillarity.** It hydrolyses into a non-adhesive polysiloxane.

A member of the oligomer group, the molecules are very weakly polymerised.

CAPILASIL HS is based on solvents free from aromatic compounds. These solvents offer the advantages of being less toxic and almost odourless. After polymerisation, the product creates a water-repellent barrier in the base of walls. Walls are dried out and protected against rising damp.

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).

ADVANTAGES

- High resistance to alkalis.
- Excellent diffusion.
- Excellent penetration power. (> 600)
- Based on solvents free from aromatics and much less toxic and almost odourless, except under the action of heat (central heating)
- Can be used on a damp medium by injection.
- Dries without a bond.
- Materials continue to breathe (plugs the pores at a rate of approximately 2.1 %, which is negligible).
- Effective long term - assessed at over 30 years.
- Resists UV radiation and does not discolour.
- Effective barrier directly after injection
- Prevents damage due to frost and thus the dangers of cracking.
- Central heating savings. Dry materials have better thermal insulation properties than damp materials.
- No efflorescence caused by the product.
- Reduction of frothing, moulds and fungi due to rising damp.

DISADVANTAGES

Take care if there are individuals allergic to solvents. The latter are free from aromatic compounds, but under the action of heat any residual aromatics smell more strongly. In this case, it is advisable to use CAPILASIL HEH2O.

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

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TECHNICAL CHARACTERISTICS

IDENTIFICATION INFORMATION	
State	Liquid
Colour	Colourless
Density	
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 14 00 90
APPLICATION INFORMATION	
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 HS 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.

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

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 HS** 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.

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

Remove splashes with **IMPRESIL**, before the **CAPILASIL HS** polymerises. Tools can be cleaned with **IMPRESIL** then rinsed with clean water.

WARNING.

Rising damp can be treated; however, salts will still be present in the walls.

Bluestone and any other non-porous material will be scrubbed immediately with **IMPRESIL** if there are splashes of **CAPILASIL HS** or they will then be treated entirely with **CAPILASIL HS**, followed by **IMPRESIL**. Of course, as these stones are not porous, the product will tend to remain in the surface. The task of **IMPRESIL** is to dilute the product so that it penetrates the medium better in certain cases.

The dark appearance will fade with time under the action of UV (ultraviolet rays) and rain. This comment is valid for all non-porous materials.

There is a special product for bluestones: **CAPILASIL PB**

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.

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

CAPILASIL HS contains organic solvents: take precautions in use.

Avoid contact with insulating materials in plastics, bitumen, etc. In fact, with all materials sensitive to solvents (roofing, rubber, certain finishes and paints, insulating materials etc.)

Comment: If nitrates (urea) are present, analyses must be carried out in our laboratory. These nitrates will be encountered only in former stables. If the concentration of these nitrates exceeds 3 to 4% (and below 6%), we recommend using our **CAPILASIL HS** product.

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.

If you have any doubt, talk to us.

ENVIRONMENT

Eliminate waste in specialised collection sites.

SAFETY

CAPILASIL 10 HS is inflammable. It must be kept away from any naked flame. While working, you must ensure that there is adequate ventilation and you should avoid breathing in fumes as far as possible.

Protect your eyes with goggles and your skin against spray.

Rinse any splashes immediately with water.

Contains mineral spirits not distilling below 150°C.

R 10: Inflammable at a temperature of 66°C

S 2: Keep out of reach of children

S 51: Use only in ventilated areas.

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 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.