

# EUCOINJECT HYDROGEL RD

## SILANE-BASED INJECTION CREAM AGAINST RISING MOISTURE

### FIELD OF APPLICATION

EUCOINJECT HYDROGEL RD is a ready-to-use, highly concentrated, oil-free, silane-based and aqueous injection cream. The injection into masonry, after penetration, creates a hydrophobic barrier and penetrates very fine capillaries due to the special formula.

EUCOINJECT HYDROGEL RD penetrates, through diffusion and absorption, into the capillaries of the masonry and is used for injecting walls against rising damp in old buildings. The newly developed technology enables injection into very damp walls with humidity levels between 95% and 100%. The gel has a silane-active content of approximately 83% (+/-3%).

### BENEFITS & FEATURES

- Ready to use
- Gel-like consistency.
- Solvent free
- Oil free
- Hydrophobic, no clogging of pores
- No cavity filling required
- Excellent penetration into very large capillaries
- Can be used in very damp walls
- Accelerated penetration

### APPLICATION

#### Application conditions

Based on its gel-like consistency, the product can be used without prior preparation such as hanging funnels and hoses, etc... The recommended application temperature is between +5°C and +40°C.

#### Tools & complementary products

- Power drill and drills.
- Caulking gun for sausages 600cc + EUCOINJECT HYDROGEL RD ACCESSORIES
- Pump (for use of EUCOINJECT HYDROGEL RD in large packaging).
- EUCOPROOF MORTAR THIX
- EUCOPROOF CEM PLUG

#### Preparations

The old castings, coatings or paints damaged with salt and moisture must be removed at least 80 cm above the visible damaged surface. Loose, sandy and damaged pieces in the surface to be treated must be removed at least 2 cm deep. The surface may need mechanical cleaning by grinding. Damaged stones must be replaced. Salt damaged and dusty surfaces must be treated with EUCOPROOF DEEP PRIMER. Joints and cavities must be regrooved with EUCOPROOF MORTAR THIX.

Then the holes must be drilled with a diameter of 12 mm, horizontally, in the mortar joint, at a distance of 8 - 12 cm and at a height of 10 to 15 cm above the floor surface. The depth of the drill holes must be 5 cm smaller than the wall thickness. (For example: 40 cm wall thickness = 35 cm drill hole depth). Clean the drill holes. If a double line of injection holes is required, then the second row, in another mortar joint, must be drilled at a maximum of 12 cm above the first row in the wall.

### Application of the product

EUCOINJECT HYDROGEL RD (600cc sausages) can be injected with a caulking gun + EUCOINJECT HYDROGEL RD ACCESSORIES under very low pressure. The injection of the holes should be done from the back of the drilled holes to the front of them. Place the injection tube at the end of the drill hole and slowly pull it back while applying pressure to the caulking gun. Make sure the drill hole is completely filled with the gel.

EUCOINJECT HYDROGEL RD (large packs) can be injected under very low pressure using a 1C-injection device and injection lance. The injection of the holes should be done from the back of the drilled holes to the front of them. Place the injection lance at the end of the drill hole and slowly pull it back while applying pressure to the injection gun. Make sure the drill hole is completely filled with the gel.

In case of a "double row" application, the application starts with the bottom row. In very critical areas a test injection is recommended.

### Finishing

After the penetration of EUCOINJECT HYDROGEL RD into the wall, the drill holes can be closed and sealed with EUCOPROOF CEM PLUG or EUCOPROOF MORTAR THIX.

While the walls are drying out, it is necessary that no vapour-tight wall paints or castings are applied. Adequate ventilation must be provided during the drying process. Additional action may be required with building dryers / moisture absorbers.

Depending on the situation and cause, additional sealing systems may be required, such as the application of a vapour open restorative plaster or a positive / negative pressure resistant cement-based waterproof coating such as CERMIPROOF FC.

### Cleaning of the tools

Clean the used equipment with water. Cured material must be removed mechanically.

### MAINTENANCE AFTER APPLICATION

Does not apply.

### TECHNICAL DATA

#### Consumption

Approx. 1,5 kg / per m and m<sup>2</sup> wall with Ø 12 mm drill holes.

For example:

11,5 cm wall thickness: approx. 100 ml / drill hole Ø 12 mm;  
24,0 cm wall thickness: approx. 220 ml / drill hole Ø 12 mm;  
36,0 cm wall thickness: approx. 330 ml / drill hole Ø 12 mm;  
48,0 cm wall thickness: approx. 440 ml / drill hole Ø 12 mm.

We recommend to work with an extra 10% margin when calculating consumption.

#### Technical data & reaction times

Property	Value
Basic raw materials	Special Silane
Density	approx. 0,89 kg/dm <sup>3</sup>
Share of active component	83% (weight percent)
Appearance	Gel / cream

Application temperature	+5°C to +40°C
Effect	Hydrophobic
Colour	White / light blue
Geur	Geurloos

### Chemical resistances

When used in applications with chemically contaminated water or chemical products / contamination, it is advisable to consult your EUCCHEM BV representative.

### Additional documentation & referrals

Always consult all technical data sheets and material safety data sheets of the products to be used. Always work with clean tools in good condition.

### APPEARANCE - COMPOSITION - PACKAGING

EUCCINJECT HYDROGEL RD is available as follows:

600 cc sausages  
10 kg buckets

Other packaging available on request: 5 kg buckets  
25 kg buckets  
800 kg IBC-container

Storage takes place in a dry room, in the original and unopened packaging between +5°C and +30°C; shelf life 12 months if stored under the conditions described above.

### ADDITIONAL COMMENTS

The use of EUCCINJECT HYDROGEL RD in cellular concrete is possible, but subject to specific requirements. If you plan to use the product for cellular concrete or other specific applications, it is advisable to consult your EUCCHEM BV representative.

### SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at [www.eucochem.com](http://www.eucochem.com). When in doubt, contact our technical service.

All information in this technical data sheet is provided in good faith and without any guarantees. The choice of a product for any application by the buyer or applicator, the processing of the products, the preparations, the finishing, the use of the right equipment to apply the products and all this in the broadest sense, are entirely beyond our control and are therefore entirely the responsibility of the buyer or applicator. Therefore, EUCCHEM bv cannot be held responsible on the basis of what is mentioned above. Should EUCCHEM bv nevertheless be held responsible for damage incurred, the claim will always be limited to the value of the necessary EUCCHEM bv products to be delivered in order to carry out a minimal repair. EUCCHEM bv strives to deliver products of consistent, good quality. All values on the technical data sheet are average values and are the result of tests performed under laboratory conditions. Values that are measured in jobsite conditions and the like may deviate from the stated values. This is because the environmental conditions, the application and the manner of processing our products are also outside our control. Please note that you should not add any products other than those indicated in our technical documentation. Only use EUCCHEM bv products for a system under construction. If you combine products from different suppliers or brands, the warranty expires irrevocably. When applying the EUCCHEM bv products it is necessary to draw up a construction site log and to fill it in on a regular basis. EUCCHEM bv can consult the construction site log at any time and / or request a copy to check whether the products and systems have been correctly installed or installed in accordance with the regulations set by EUCCHEM bv. We also refer to our general terms and conditions in case of dispute. This version of the technical data sheet replaces all previous versions. Version 1.0 Date: 14 October 2021 11:07 am