



MAXCLEAR[®] INJECTION

CHEMICAL DAMP-PROOFING INJECTION AGENT FOR RISING DAMP IN MASONRY

DESCRIPTION

MAXCLEAR INJECTION is a solvent-free liquid resin based on siloxanes which once diluted in water it is converted into a water-repellent microemulsion, to provide a highly effective horizontal barrier against rising damp in masonry.

USES

Damp-proof courses injected under gravity or under pressure, for any kind of masonry, both exterior or interior walls, affected by capillary moisture.

ADVANTAGES

- Allows the substrate to breath, it does not seal the pores.
- Suitable for application in thick walls and high damp content.
- Excellent penetration power in damp substrates.
- It does not produce or release any salts. No aesthetic changes on the original surface.
- Concentrate product, excellent coverage and savings in storage and transport costs.
- Environmentally friendly. It is solvent-free, non-corrosive and non-toxic, improves the working area conditions for operators and occupants.
- Only requires potable water for diluting.
- Easy to clean.

APPLICATION INSTRUCTION

Substrate preparation:

Remove previous render or coatings at least 90 cm. above the highest point of the rising damp level. Eliminate all efflorescences, damaged masonry, loose particles and unsound mortar joint until a good substrate and patch with MAXREST. Large cavities and hollow brick masonry must be sealed also with MAXREST.

Drills preparation:

Drill a horizontal line of boreholes placing intervals of 10-12 cm, depending on the substrate absorption. Holes are drilled in the mortar and in a downward direction at an angle of 30° to 45° for gravity injection or 15° to 30° for pressure injection. The higher wall thickness the lower angle required. Anyway it is strongly recommended, if it is possible, to cross with the drill at least one horizontal line of joint mortar, thus the better dispersion of MAXCLEAR INJECTION is achieved. Drill length must be approx. 5 cm. shorter than wall thickness. Remove dust and traces inside the boreholes with air pressure before the injection.

For non-homogeneous substrates full of voids and cavities or extremely porous, a fine fluid mortar such as MAXGROUT INJECTION (Technical Bulletin n° 151) should be injected previously as a filler and sealer. Insert a stick to open up the boreholes before the initial setting time of the mortar (approx.30 minutes), in order to allow later MAXCLEAR INJECTION penetration.

Micro-emulsion preparation:

Prepare a dilution MAXCLEAR INJECTION:water with a ratio between 1:10 to 1:15. Pour MAXCLEAR INJECTION into water. The microemulsion must be injected on the same day that is prepared.

Gravity injection method:

Insert suitable feeding recipient such as funnel-shaped feeders into the boreholes. Re-fill the feeders, wet on wet, until the complete saturation of the substrate.

Pressure injection method:

This is the most suitable method to achieve the better dispersion and ensure the total saturation of the substrate, and it will be used when the damp content in substrate exceeds 50%.

Coat with MAXSEAL FLEX (Technical Bulletin n° 29) below the injection level and 20 cm above to avoid MAXCLEAR INJECTION to coming out from cracks and pores.

Injection is carried out with a pump through suitable injection packers inserted into the holes, at a pressure of 3 - 20 bars, and allowing to elapse 5 – 10 minutes. The pressure will vary depending on the strength, porosity, saturation degree of the substrate. It is advisable to use a lower pressure but allowing a longer injection time.

In case of high damp content (> 80%) to speed up the activation of MAXCLEAR INJECTION, it can be injected 1 or 2 days later MAXCLEAR INJECTION CAT, thus a faster build-up of the water-repellent barrier is achieved. The same equipment can be used for this purpose.

The boreholes can be filled with MAXGROUT INJECTION after 3-4 days.

For providing a mortar finish, 14 days after the injection, a macroporous mortar such as THERMOSAN (Technical Bulletin n° 84), can be applied with its waterproof and decorative finish THERMOSAN F(Technical Bulletin n° 85), both suitable for masonry affected by rising damp.

Cleaning:

Use water to clean tools and equipment immediately after the injection works.

CONSUMPTION

The consumption of MAXCLEAR INJECTION will depend on damp content and porosity of the masonry. Approximately from 20 to 40 litres microemulsion MAXCLEAR INJECTION/ water per square metre of cross-section is needed. For example, a 1 m. length of wall and 1 m. thickness and boreholes spaced 10 cm. would require from 2 to 4 litres of microemulsion per borehole (0,125 – 0,250 kg pure MAXCLEAR INJECTION diluted with a ratio 1:15)

The consumption for MAXCLEAR INJECTION CAT is the third part of microemulsion MAXURETHANE INJECTION/ water used.

CAUTIONS

- Do not mix different products in the injection pump before clean it thoroughly with water.
- Wash with water the surface of the masonry if MAXCLEAR INJECTION comes out during the injection, in order to avoid lack of adhesion for next renders.
- Do not use dilution MAXCLEAR INJECTION/water with more than one day prepared.

SAFETY

MAXCLEAR INJECTION is a flammable product. All storage, transport and handling precautions for these kind of material must be observed. Wear protective clothes, gloves and glasses during the dilution and injection. Avoid contact with skin and eyes. Safety Data Sheet for MAXCLEAR

INJECTION is available on request. In case of contact with eyes or skin wash thoroughly with water.

TECHNICAL DATA

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| Appearance | Amber liquid |
| Density | 0.95 gr/cc |
| Active resin content | 100 % |
| Solvent content | 0 % |
| Viscosity (Ford Cup nº 4) | 15 sec. |
| Dilution ratio product/water | 1/10 – 1/15 |
| Flash point | 25 °C |
| Toxicity | None |
| Corrosiveness | None |
| Packaging | 5 and 25 lts drums |
| Storage | 12 months if stored in tightly closed original drums between 5 and 30°C |

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliography material. DRIZORO reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product.



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