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Licata Injecto Gel

Injectable gel chemical barrier based on monomeric silane for the water-repellent treatment of masonry affected by rising damp.



Licata Injecto Gel is a latest-generation water-repellent cream, specifically formulated for creating chemical barriers against rising damp in masonry. **Licata Injecto Gel** is an easy-to-use product that is applied without the need for special equipment, by filling small holes drilled at the base of the wall using a simple applicator gun. Once applied, **Licata Injecto Gel** spreads through the damp masonry to form a water-repellent barrier that allows the wall to dry out and stops rising damp.



MAIN FIELDS OF APPLICATION

Licata Injecto Gel can be used to treat rising damp in almost all types of masonry:

- Solid brick walls
- Cavity walls
- Mixed masonry
- Irregular stone walls
- Rubble-filled walls, etc.

For application on other substrates, please contact the technical department.

CHARACTERISTICS

- Ready-to-use waterproofing cream.
- Its thixotropy allows use in horizontal holes without the product running out of the hole.
- Easy installation (reduced operator error, results independent of operator skill).
- Quick to apply (no need to wait to pump the material as with pressure systems, no need to refill as with gravity systems).
- Easy to calculate the quantity of material required.
- No loss of gel through party walls, cavities or voids.
- No risk of pronounced efflorescence as with silicone-based treatments.
- The product spreads well through porous substrates, ensuring uniform migration over several centimetres through the pores and capillaries of the masonry.
- Treatment with **Licata Injecto Gel** gives the masonry a very high degree of water repellency, blocking capillary rise while leaving its water vapour permeability unchanged.

APPLICATION METHOD

Licata Injecto Gel must be applied by drilling a series of horizontal blind holes 14-16 mm in diameter, at 10-12 cm centres, approximately 5 cm above ground level. The holes should preferably be aligned horizontally and drilled, as far as possible, along the mortar joints of the courses of brick or stone that make up the wall. As a rule, the depth of the holes should be 4 cm less than the thickness of the wall. When preparing the substrate, if possible, remove the damaged plaster and any other coatings as early as possible, up to a few tens of centimetres above the area affected by damp. After drilling, each hole must be cleaned properly by blowing through with dry air. Apply **Licata Injecto Gel** with the manual applicator gun until the hole is completely filled, avoiding trapping air inside it. To prevent this, simply use a small tube/extension and fill the hole from the bottom outwards, not the other way round.

Solid walls:
Solid walls must be treated from one side only in a single operation: drill the selected mortar course at the prescribed centres and to the appropriate depth.

Cavity walls:
Cavity walls must be treated from one side only in a single operation or, if preferred, each leaf can be treated separately. When working from one side, drill right through the selected mortar course, allowing the drill bit to pass through the cavity, then drill the other leaf, stopping the blind hole within 40 mm of the opposite face. If each leaf is treated separately, treat each leaf as if it were a single solid wall.

Irregular stone and rubble walls:
Follow the mortar course at the lowest possible level; if the stone is porous, e.g. sandstone, the holes can be drilled directly into the stone itself. Where injection holes become blocked, it may be necessary to drill to 50% of the wall thickness from both sides at a corresponding height. Alternatively, drill additional holes adjacent to the blocked ones to ensure an adequate volume of **Licata Injecto Gel** is injected to form a continuous barrier. All drilled holes must be plugged or filled and pointed with the appropriate mortars from the ***licata.repair*** range. As with all damp-proofing systems, adequate removal of salt-contaminated plaster is an essential requirement. Reinstate the removed plaster with **Storica Deumidificante**, following the instructions in the relevant technical data sheet.

Depth of 14 mm diameter holes required for **Licata Injecto Gel** for various wall thicknesses:

Wall thickness	Hole depth	Centres
110 mm	110 mm	120 mm
220 mm	190 mm	120 mm
330 mm	310 mm	120 mm
440 mm	420 mm	120 mm

PRODUCT INFORMATION

Appearance	Paste - White
Chemical base	Silane-based emulsion
Packaging	310 ml cartridges 5 kg bucket 16 kg bucket 180 kg drum
Specific weight	≈ 1.00 kg/L
Consumption	Indicative number of cartridges required:

Wall length	Wall thickness				
	110 mm	220 mm	220 mm	330 mm	440 mm
10 m	~ 3.0	~ 6.0	~ 10.0	~ 10.0	~ 14.0
20 m	~ 6.0	~ 12.0	~ 20.0	~ 20.0	~ 26.0
30 m	~ 9.0	~ 18.0	~ 30.0	~ 30.0	~ 42.0
40 m	~ 12.0	~ 24.0	~ 40.0	~ 40.0	~ 56.0

Note: always allow for at least an additional 10% when estimating the quantities required

Storage	12 months from the date of production if stored in intact original packaging.
Storage conditions	In a dry place at temperatures between +5 °C and +35 °C. Protect from direct sunlight and moisture.

WARNINGS

- Product for professional use
- Do not apply on frozen or thawing substrates.
- Ensure that the surfaces being treated are not exposed to direct sunlight and/or wind, that the ambient and substrate temperatures are not below +5 °C or above +35 °C and that the relative humidity does not exceed 70%.
- In the case of critical substrates or substrates other than those listed in this data sheet, check their suitability beforehand or contact the technical department.
- Protect eyes and hands during application.
- After use, wash tools with water.

SAFETY

For information on the correct disposal, storage and handling of the product, please refer to the relevant Safety Data Sheet.

NOTES
This technical data sheet supersedes and replaces all previous versions.
The information and performance data provided in this document are based on our current technical and scientific knowledge and are in any case to be considered purely indicative, as the conditions of use are beyond our control. The purchaser must therefore verify the suitability of the product for the specific application, assuming all responsibility arising from its use. Our technical and sales network guarantees prompt advice and is available for any clarification or questions on the use and application of ***licata SpA*** products.
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