



MAXINJECTION[®]

CAL

VERY FLUID LIME MORTAR FOR FILLING AND CONSOLIDATION WORKS BY INJECTION

DESCRIPTION

MAXINJECTION[®] CAL is a one component mortar based on lime, fine fillers and special additives, specifically designed for cavity filling and consolidation of walls by injection or gravity pouring.

APPLICATION FIELDS

- Consolidation and filling of brickworks and masonry by injection or pouring.
- Consolidation and filling of pillars, foundations and structures in historical buildings and heritages by injection or pouring.

ADVANTAGES

- It becomes structural part of the substrate, filling all existing holes and cavities.
- Does not content cement; highly compatible with weak structurally substrates.
- Resistant to soil sulphates, does not create efflorescence and not affected by expansive reactions.
- Very small particle size mortar, filling and sealing all micro cracks and hairline fissures.
- Excellent fluidity, without segregation or bleeding.
- Chloride-free, non-corrosive for steel.
- Only needs water for mixing.
- Environmentally friendly: non-toxic and solvent-free product.

APPLICATION INSTRUCTIONS

Hole preparation

Drill two horizontal lines separated from 0,5 and 1 m, placed squarely or staggered, and in a downward direction from horizontal or up to a maximum angle of 30° approximately. Recommended hole diameter is from 3 to 4 cm and maximum hole length should be 5 cm shorter than wall thickness.

Drilling should be done from one wall side, but in case wall thickness is higher than 0,7 m, is advisable to drill in both sides with a hole length the half of the wall thickness.

Clean of dust and loose particles the interior of the drilled holes with air compressed. Check the right

type of packer is fixed into the hole to avoid any leakage during the injection process.

If needed, use **MAXMORTER[®] CAL** to seal, fill or repair any surface damage on masonry or brick wall, to avoid any leakage during the injection process. To fill large cavities, place a form work and repair by pouring.

Substrate preparation

Dampen thoroughly the substrate through the injection packers but do not leave free standing water.

Mixing and injection

A 15 kg bag of **MAXINJECTION[®] CAL** requires from 7,2 to 7,8 litres (50 ± 2 %) of clean water, depending on existing ambient conditions and desired consistency. Pour the water in a clean container and add gradually **MAXINJECTION[®] CAL**, mixing by a slow speed electric drill (400-600 rpm) fitted with a disc mixer, about 2-3 minutes until achieving a lump-free, homogeneous and fluid mortar. Mix only the amount of **MAXINJECTION[®] INJECTION** that can be used in about 15-20 minutes. Mix briefly the fresh mortar during its pot life to keep the workability, but do not add more water.

Check previously the air tightness of the injection pump system. Injection should be done with a maximum nozzle pressure between 1 - 3 bars

Application conditions

Do not apply with substrate and/or ambient temperature is at or below 5°C, or when this temperature is expected to fall within 24 h. Do not apply to frozen or frost-covered surfaces.

Cleaning

All tools and equipment must be cleaned immediately with water after use. Once product hardens, this can only be removed by mechanical means.

CONSUMPTION

One kg of **MAXINJECTION[®] CAL** fills a volume of 0,85 litres approximately. Consumption may vary depending on porosity, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

IMPORTANT INDICATIONS

- Do not add cements, additives, aggregates or other compounds.
- Do not use leftovers from previous mixes.
- To keep its workability, remix briefly the fresh mortar but never add more water.
- For further information and other uses not specified on this Technical Bulletin, consult our Technical Department.

PACKAGING

MAXINJECTION® CAL is supplied in 15 kg bags. It is available in white colour.

STORAGE

Twelve months in its unopened original packaging. Store in a cool, dry and covered place,

protected from moisture, freezing and direct sunlight, at temperatures above 5 °C.

SAFETY AND HEALTH

MAXINJECTION® CAL is not a toxic product but is an abrasive composition. Avoid direct eye and skin contact, and breathing dust. Use rubber gloves and safety goggles during application. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXINJECTION® CAL**.

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

TECHNICAL DATA

Product characteristics	
Appearance and colour	White powder
Maximum size particle, (µm)	< 50
Powder density, (g/cm ³)	0,75 ± 0,1
Application and curing conditions	
Mixing water, (% by weight)	50 ± 2
Fresh mortar density (g/cm ³)	1,68 ± 0,1
Pot life at 20 °C & 50 % R.H., (h)	20 – 30
Segregation of fresh mortar	None
Cured product characteristics	
Compressive strength at 28 days (MPa)	3
Consumption* (kg/l to fill)	0,85

* These figures are for guidance only and may vary depending on porosity, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®, S.A.U.** 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. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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