

Basic INIEZIONE M5

ST1-0123

Injection mix with natural hydraulic lime for the consolidation of rubble-filled walls



DESCRIPTION

Basic INIEZIONE is an injection mixture with high resistance to sulphates and a low content of water-soluble salts based on NHL natural hydraulic lime, specially formulated to regenerate and consolidate, through injection, masonry and cavity foundations in brick or cut stone.

Basic INIEZIONE has a low content of water-soluble salts and is physically and chemically compatible with the original components of the masonry, with similar mechanical characteristics; it can be injected with any pump into cracks or cavities with proper injectors.

It is CE marked according to the UNI EN 998-2 for mortar for masonry class M5.




USES

Basic INIEZIONE is used for the restoration and pre-consolidation of ancient brick or flint walls by means of injecting with low pressure injection systems.

WORKS

- Repair of ancient masonry rubble-filled walls through injection of mixture with high mechanical strength and low content of water-soluble salts ([SA51](#))

APPLICATION

	Pourable		Workability time of fresh mortar: 195 ± 30 mins
			Mixing water: 7-8 lt/ 25Kg variable according to the desired workability

Basic INIEZIONE must be mixed with water in the quantity shown in the table.

Add 3/4 of water required into the mixer, then add the product and the remaining water continuously until you obtain the consistency required.

No component other than the mixing water must be added to the product during preparation and laying.

Basic INIEZIONE must be injected into walls by means of normal electric or manual low-pressure pumps, using injectors fixed into the holes and proceeding from the lower holes towards the upper ones.

Do not remix by adding water to the product when it has already started to set. With frescoed walls, use **Limepor IZ8** and contact our Technical Department for support.

CONSUMPTION

1,5 Kg/dmc

Absorption per cubic metre of masonry: about 80-190 kg depending on the size of the cavities in the wall.

PACKAGING

Sac. 25 Kg.

STORAGE

Protect from humidity. Store in a dry, sheltered place. In these conditions the product remains stable for 12 months.

Characteristics	Value
Appearance	Powder
Color	Light grey-hazel shades
Type of binder (UNI EN 459-1)	NHL 3,5 and NHL 5
Bulk density of fresh mortar UNI EN 1015-6 [kg/dmc]	1,9
Application temperature	+2 - +35 °C
pH in water dispersion	11,5 -12,5
Maximum inert material size EN 1015-1	0,09mm
Soluble salts, sulphates, nitrates, chlorides content (Normal 13/83)	< 1,5% Of which chlorides < 0,03%
Resistance to sulphates	No resistance loss for specimens immersed for 90 dd in Na ₂ SO ₄ solution at 5%
Resistance to sulphates Anstett-Le Chatelier edited (internal procedure)	Clamping aperture: <10 mm; the product has high resistance to sulfur attack
Fluidità EN 445 (Marsh cone)	Beginning < 25 secs; 30 mins < 25 secs; 60 mins < 25 secs.
Workability time of fresh mortar UNI EN 1015-9	195 ± 30 mins
Bleeding UNI 480-4	None
Elastic modulus UNI EN 13412	~ 5000 MPa
Compressive strength in 28 dd UNI EN 1015-11	≥ 5 MPa
Flexural strength in 28 dd UNI EN 1015-11	≥ 3,5 MPa
Thermal conductivity	0,83 W/mK (table value)

ecological, toxicological and other data related to safety.

All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may vary due to circumstances beyond our control.

The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.

Characteristics (mixing water 30%)	Limits EN 998-2	Value
Components ratio in weight [%]	Declared value	Binder: 25-35 Aggregates: 65-75 Additives: < 1
Chlorides content [%] EN 1015-17		≤ 0,1
Compressive strength in 28 dd EN 1015-11 [MPa]		≥ 5
First shear resistance [MPa] In combination with masonry elements compliant to EN 771		0,15 [Table value]
Capillar water absorption EN 1015-18		0,4
Water vapour permeability EN 1745		15/35 [Table value]
Reaction class to fire		A1
Hazardous substances		See SDS

WARNING

Product for professional use.

The use of natural raw materials may result in natural color variations from different production batches.

Before using, check bags have not been damaged, and do not use the product if there are any lumps.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical,