Limepor IZ4

ST12-0221

Mixture based on natural hydraulic lime to bond frescoed plasters detached from the substrate

DESCRIPTION

Limepor IZ4 is an injection mixture made out of NHL natural hydraulic lime. The product is specific for bonding and consolidating frescoed plasters detached from the wall. The raw materials used are fired at low temperature according to the traditional techniques. It can be mixed with **Kimitech B2** resin in total water replacement.
Limepor IZ4 is very fluid with low water/binder ratio and high penetration power resulting in the saturation of small cracks or cavities and even smaller voids.

ADVANTAGES

- High breathability and chemical compatibility with the materials used in historic buildings.
- It does not give rise to efflorescence, extremely low water-soluble salts content and absolute no presence of cement compounds (Alite C3S and Belite ß-C2S).
- Light product, with a low specific weight.

USES

Limepor IZ4 is used for the consolidation and bonding, by injection, of frescoed plasters detached from the wall.

WORKS

- Bonding and consolidation by injections of frescoed plaster detached from the substrate (**SA44**)

APPLICATION

	Pourable		Workability time of fresh mortar: 240 ± 30 mins
			Mixing water: 1,5 lt/ 4Kg

Limepor IZ4 should be mixed with drinking water in the quantities shown in the table.
It is advisable to introduce 3/4 of the required water into the mixer, adding the product and the remaining water continuously, until the desired consistency is achieved.
Let the mixture rest for about 10 minutes and inject with special injectors.
Any other components besides mixing water or **Kimitech B2** resin must not be added during preparation and laying.
Do not mix the product by adding water once it has started setting.

CONSUMPTION

1,3 Kg/dmc

PACKAGING

Con 4 Kg

STORAGE

The product fears moisture. Store in a sheltered and dry place; in these conditions and in intact containers, the product maintains its stability for 12 months.

Characteristics	Value
Appearance	Powder
Color	White
pH in water dispersion	11,5 - 12,5
Maximum inert material size EN 1015-1	0,1 mm
Bulk of fresh mortar EN 1015-6	1790 ± 50 Kg/m³
Fluidity EN 445 (Marsh cone)	Initial < 25 sec.; 30 min < 25 sec;

	60 min < 25 sec.
Compressive strength in 7 dd EN 1015-11	> 3 MPa
Compressive strength in 28 dd EN 1015-12	> 5 MPa
Flexural strength in 7 dd EN 1015-11	> 1 MPa
Flexural strength in 28 dd EN 1015-11	> 1,2 MPa
Water-soluble salts content normal 13/83	< 0,07 %
Workability time of fresh mortar EN 1015-9	240 ± 30 mins

WARNING

Product intended for professional use. Different batches of the same raw materials have slightly discordant colors, between one batch of production and the other there could be small chromatic variations.
Check the integrity of the package before use and do not use the product with 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, 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.

TECHNICAL SPECIFICATIONS

SK44 - Bonding and consolidation by injections of frescoed plaster detached from the substrate

Bonding and consolidation by injection of frescoed plasters detached from the substrate with Limepor IZ4 by Kimia S.p.A. or similar product. The consumption of material will be about 8-10 Kg / sq.m (to be verified through accurate preliminary investigations).

The injection product for bonding and consolidating detached frescoed plasters, made of NHL natural hydraulic lime (CE marked on the basis of EN 459), characterized by a low content of water-soluble salts and by physical, chemical and mechanical compatibility with the components used in the past, will be carefully prepared and applied following the indications given on the technical sheets provided by the Manufacturer and must have the following characteristics:

- Maximum inert material size EN 1015-1: 0,1 mm;
- Fluidity UNI 8997: 65 - 75 cm;
- Compressive strength in 7 dd EN 1015-11: > 3 MPa;
- Compressive strength in 28 dd EN 1015-12: > 5 N/mm²;
- Flexural strength in 7 dd EN 1015-11: > 1 MPa;
- Flexural strength in 28 dd EN 1015-11: > 1,2 MPa;
- Water-soluble salts content normal 13/83: < 0,07 %;

The base binder of the product will be CE marked according to the EN 459 009/CPD/A46/0003.