



## Limepor IZ4

ST9-0319

*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, pozzolane (high reactivity metacaolin) and selected carbonate filler with very fine particle size. 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. The high quality of hydraulic lime and metacaolin create a product that does not give rise to efflorescence and with no water-soluble salts.

### ADVANTAGES

- **Performing:** it guarantees the perfect re-adhesion of historical plasters to the substrate; extremely low water-soluble salts content; it does not give rise to efflorescence; high breathability.
- **Compatible:** the raw materials used are fired at low temperature according to the traditional techniques; chemical compatibility with the materials used in historic buildings; absolute no presence of cement compounds (Alite C3S and Belite  $\beta$ -C2S).
- **Easy application:** light product, with a low specific weight, suitable for the filling of empty spaces in the consolidation of plasters detached from the wall; very fluid with low water/binder ratio and high penetration power resulting in the saturation of small cracks or cavities and even smaller voids; absence of segregation in the mixture during injection; ready to use, easy to apply.




### 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

Pallet 80x4 Kg – 320 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
Particle size distribution EN 1015 1 (0,10mm)	100 %
Particle size distribution EN 1015-1 (0,01mm)	40 %
Bulk of fresh mortar EN 1015-6	1790 ± 50 Kg/m <sup>3</sup>
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.

The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product.

It is the customer's responsibility to verify the product suitability for its use by making previous tests before the application and check that this data sheet is still effective and it has not been replaced by more updated versions.

## 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:

- Particle size distribution EN 1015 1 (0,10mm): 100 %;
- Particle size distribution EN 1015-1 (0,01mm): 40 %;
- 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/mm<sup>2</sup>;
- 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.