LIMEPOR TREVI

Natural hydraulic lime-based mortar for waterproofing external surfaces.

Scheda Tecnica rev.02_08/2025

DESCRIPTION

Limepor TREVI is a mortar based on natural hydraulic lime NHL 3.5 and ecopozzolan,waterproof even in thin layers. Mixed with Kimitech ELASTOFIX resin, it gives rise to a two-component product with strong chemical-physical characteristics that further improve its performance

USES

Limepor TREVI is used to waterproof masonry structures and roofs of historic buildings, pools and fountains.
It is used for the construction of waterproof and protective coating, resistant to salts, to be made for the waterproofing of construction elements, including those of historical and artistic value, such as vaults, domes, cornices, stone covers, masonry basins and fountains.
It can be applied on vertical and horizontal surfaces consisting of solid brick, load-bearing hollow bricks, light hollow bricks, mixed bricks, stones and tuff, and on all those compact or poorly absorbent surfaces such as solid or hollow blocks of cement conglomerate, cellular conglomerate blocks, lime or cement-based supports, reinforced concrete structures, screeds.

CERTIFICATIONS

Limepor TREVI is marked as a protective coating according to 1504-2, MC and IR intervention principles and according to UNI EN 998-1for GP type mortars.

EN 998-1 EN 1504-2 CE

APPLICATION

	Manual application		Curing time Normal: 175 ± 30 mins
	Mechanical devices application		Mixing water: with spatula 7,6-8,4 lt / 20 kg with roller 8 lt + 2 lt acqua / 20 kg
			Brush or paint roller application

Before application, make sure that all the preliminary operations have been carried out preparatory to a correct application of the product. Special care must be reserved for the preparation of the supports. Each part in detachment
and not having sufficient mechanical characteristics must

be removed. To remove dust deposits, pre-existing coatings, traces of grease, rust, release agents, paints and varnishes, cement milk and any other substance or material that may affect the adhesion of subsequent coatings,
thoroughly clean the substrate by sandblasting, high pressure washing pressure, brushing. Any deep and extensive irregularities (nests of gravel, overhangs between castings, etc.) must be remedied beforehand with technical repair mortar from the Kimia range:

- The connections between wall and floor, in the case of
- waterproofing in the presence of negative hydraulic thrust,
- treated by means of connecting shells.
- In the presence of joints, proceed with an adequate restoration cycle and waterproofing.

To prepare the product, use for each 20 kg package of Limepor TREVI drinking water in the quantities indicated in the table or, alternatively, Kimitech ELASTOFIX (to increase flexibility characteristics).
Wet the area to be treated to saturation, taking care to

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eliminate, at the moment of the jet, any stagnation of water. Stir the product for about 5 minutes with a concrete mixer or, in the case of small doughs, with a drill and whisk. Introduce 3/4 of the water needed and, continuously, the product and the remaining water up to to obtain the desired consistency. Obtained a homogeneous dough free of
lumps, let the mixture rest for 10 minutes and apply with a brush, spatula or spray with airless pump. Arm the product with Kimitech 350 mesh.
For applications in successive passes, always work fresh on fresh.
The product can be added with aggregates, appropriately dosed in function of the type and grain size, in order to obtain chromatic effects.

CONSUMPTION

1,5 Kg/m²/mm.

PACKAGING

20 kg multilayer polythene bag.

STORAGE

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

CHARACTERISTICS	VALUE
Appereance	Powder
Colour	White
Apparent specific weight uni 9446	0,92 ± 0,1 g/cm³
Hazard classification 1999/45/CE e 67/548/CEE	Irritant
Maximum inert material size en 1015-	0,5 mm
Apparent bulk of wet mortar en 1015-6	1450 kg/m3
Consistency uni 7044/72	40 - 50 %
Pot life en 1015-9	80 ± 20 mins
Setting time (start) en 196-3	175 ± 30 mins
Setting time (end) en 196-3	270 ± 30 mins
Minimum application temperature	+ 5 °c
Ph of mixture	12 ± 0,5
Maximum recommended total thickness	5 mm

CHARACTERISTICS OF THE HARDENED PRODUCT (MIXING WATER 33%)	VALUE
Compression strength in 28 days EN 12190	> 1,5 mpa, < 5 mpa
Flexural strength in 28 days EN 12190	> 1,5 mpa
Resistance to positive pressure UNI EN 12390/8	5 bar
Resistance to negative pressure UNI EN 8298/8	2,5 bar

CHARACTERISTICS (MIXING WATER 33%)	LIMITS EN 1504-2 COVERING C, PRINCIPLES MC AND IR	VALUE
Characteristic	Limits EN 1504-2 Covering C, principles MC and IR	Fulfilling Standards
Adhesion to concrete EN 1542	Flexible systems Without trafficking >0,8 Mpa; with trafficking >1,5 Mpa. Rigid systems Without trafficking >1 Mpa; with trafficking >2 MPa.	> 0,8 N/mm²
Permeability EN ISO 7783-2	Class I (permeable to vapour) Sd < 5 m Class II 5 m ≤ Sd ≤ 50 m Class III (no permeable to vapour) Sd > 50 m	Class I
Capillary absorption and permability to water EN 1062-3	< 0,1 Kg/m²·h^{0,5}	< 0,1 Kg/m²·h^{0,5}
Reaction to fire class	Value declared	A1

WARNING

Product for professional use.
Given the possibility that different supplies of the same raw materials have slightly discordant colors, including a lot of production and the other may be minor color variations that do not affect in any way the technical performance of the products supplied.
Before using, check bags have not been damaged, and do not use the product if there are any lumps.
Do not remix by adding water to the product when it has already started to set.
The equipment used for the preparation and installation of the product must be cleaned with water before hardening.
For later applications always work wet on wet.
Do not apply at temperatures below +5 °C, when it is about to rain or on surfaces in direct sunlight.
Once work is completed, wait at least 7 days before refilling the waterproofed items with water or other liquids.
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

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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

SK15 - Waterproofing of tanks and fountains

Cleaning of the substrate (aimed at the total elimination of dust, grease, old paints, inconsistent parts, detachment and those that don't have sufficient mechanical characteristics and any other material that may affect the good anchoring of the work), possible cortical restoration and/or skim coating of deep and extended irregularities.

Preliminary treatment of joints and fittings and infill
of local or generalized water infiltrations with Betonfix WW mortar
by Kimia S.p.A. or similar product

Perform waterproofing with Limepor Trevi mortar (consumption of about 3.5 kg / sq m) mixed with 35% by weight with Kimitech ELASTOFIX. by Kimia S.p.A. or similar product, reinforced with Kimitech 350 mesh.

The waterproofing mortar with an osmotic effect for thin-layer waterproofing will be prepared and applied scrupulously following the instructions on the technical data sheets provided by the manufacturer and must have the following characteristics:

- Maximum size of the EN 1015-1 aggregate: 0.5 mm;
- Consistency of the UNI 7044/72 mixture: 40 - 50%;
- Duration of the mix EN 1015-9: 80 ± 20 minutes;
- Start of setting EN 196-3: 175 ± 30 minutes;
- End of setting EN 196-3: 270 ± 30 minutes.

The product will be certified relating to global migration in distilled water according to the M.D. 21.03.73 and later modifications (after immersion for 2 hours at 40 ° C the analytical value found will not be higher than the legal limit set at 10 mg/dm2).
The product will be CE marked as a type C second protective coating according to EN 1504-2, MC and IR intervention principles.