TECHNICAL DATA SHEET

ISOVIT LIME

BONDING MORTAR AND EXCLUSIVELY NHL-BASED FIBRO-REINFORCED SKIM

SECIL TEK
DÁ FORMA ÀS IDEIAS

1. DESCRIPTION

ISOVIT LIME is a surface bonding and regularising mortar for ETICS systems or for mesh plastering renovation on old surfaces, whose base link is exclusively **Natural Hydraulic Lime (NHL)**.

2. FIELD OF USE

ISOVIT LIME is especially suitable for bonding and surface regularization, allowing the adherence of panels in exterior thermal insulation systems, ETICS systems, with high permeability to water vapour, such as wood fibre (WF), black cork agglomerate (ICB) or mineral wool (MW) panels. Masonry, wood, cement block and/or hydraulic base surfaces, such as concrete and plasters, are permissible for receiving these systems. This mortar is also suitable for reinforced renovation plasters on old surfaces, thanks to its excellent permeability to water vapour.

ISOVIT LIME is appropriate for the renovation of painted or ceramic-coated surfaces, since it permits the bonding of external thermal insulation systems directly onto this type of surface with the complementary application of *ISOVIT Bucha* type mechanical fixings.

For non-standard applications or special circumstances contact our Commercial-Technical Service.

3. PRODUCT FEATURES

Powder product	Amount	Standard
Colour	Natural	-
Grade	<1.0 mm	-
Paste product	**Amount**	**Standard**
Mixing water	30% ± 1.0%	-
Theoretical consumption	3.0 a 5.0 kg/m^2 – Bonding 1.2 kg/m^2/mm – Smoothing	-
Hardened Product	**Amount**	**Standard**
Compressive strength	≥ 6.0 MPa (CSIV)	EN 1015-11
Adherence to brick/block	≥ 0.8 MPa / A and B	EN 998-1
Adherence to insulation board, EPS	≥ 0.1 MPa Leakage within the insulation	-
Adherence to insulation board, wood fibre panel	≥ 0.1 MPa Leakage within the insulation	-
Density	1200 ± 100 kg/m^3	EN 1015-10

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Hardened Product	Amount	Standard
Capillarity	Class W_c2	EN 1015-18
Vapour permeability	≤ 10 μ	EN 1015-19
Reaction to fire	Class A1	EN 998-1
Thermal conductivity ($\lambda_{10, dry}$)	0.33 W/m.°C (P=50 %)	NP EN 1745

4. APPLICATION

a) Preparation of substrates

Surfaces must be hardened, clean of dust, releasing agents, crumbling or unstable materials, efflorescences, as well as any type of material affecting the conditions of adherence.

The surfaces must be checked with a two-metre ruler, ensuring that there are no irregularities greater than 1 cm. If there are, the surfaces should be smoothed with ***REDUR H2FIBRA*** plaster on new constructions, or ***REABILITA CAL RB*** in the restoration of old buildings.

Previously applied plasters must have a trowelled surface and cure for about 28 days, protected from the weather.

For application on painted surfaces, the paint must have sufficient adherence to support the new coating.

Should the surface be an old ceramic coating, it must be ensured that it is sturdy, smooth and all parts adhere well to the surface. If this is not the case, the loose parts should be removed and the coating smoothened.

If necessary, clean the surface with suitable detergents to remove oils and residues accumulated on the surface.

b) Preparation of the mixture

ISOVIT LIME should be mixed with 6.1 to 6.5 litres of clean water (preferably drinking water) for each bag of product, using an electric mixer, until a smooth paste is obtained.

c) Application

- *Apply to masonry and uneven surfaces (gradient no more than 1 cm every 2 metres)*

Bond the panels (dimensions 1.0 x 0.5 m) with a broken line of mortar around the perimeter, adding at least two points of mortar in the centre of them. Provide for mechanical fixing with ***ISOVIT Bucha*** (recommended minimum – 6 per/m²).

- *Apply to even plaster or concrete surfaces*

Simple continuous bonding should be carried out using a 10 mm jagged trowel, preferably placing the mortar on the back face of the panels. Provide for mechanical fixing with ***ISOVIT Bucha*** (recommended minimum – 6 per/m²).

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- *Recommendations for bonding*

The procedures for the development of bonding should ensure uniformity of surfaces, that the panels are level and without gaps and that there is no mortar between them.

- *Regularisation*

Skim ***ISOVIT LIME*** mortar on thermal insulation panels, conveniently arranged and adherent to the surfaces.

Apply a first jagged layer and immediately proceed to the installation of a fiberglass mesh with characteristics appropriate to the application – ***ISOVIT REDE 160/343***. The second layer should be applied after complete hardening of the first in order to provide the even surface needed to receive the final finish.

d) Restrictions

ISOVIT LIME should not be applied at ambient and surface temperatures below 5 ºC and above 30 ºC.

The application of the panels should not be carried out under direct solar radiation, in strong wind or high temperatures.

The surface of the front panels must be protected with trim solutions that effectively protect the materials from water ingress.

e) Complementary advice

Do not use ***ISOVIT LIME*** to bond joints between insulation panels.

The water in the mix must be free of impurities (clay, organic material, etc.), preferably being of drinking quality.

No grout should be applied that has started the process of setting. Do not soften the mortar by adding water after preparation.

Do not add any other products to the mortar, and ***ISOVIT LIME*** should be applied as shown in the original packaging.

Do not apply in temperatures above 30 ºC or below 5 ºC. Do not apply on

horizontal surfaces or on inclines less than 45º.

Protect the upper edges of the rainwater coating.

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5. PACKAGING AND VALIDITY

Packaging

Plastic pallets of 60 x 20kg paper bags.

Expiry

12 months, provided that the original packaging remains intact and stored against extreme temperatures and damp.

6. HYGIENE AND SAFETY

(DOES NOT PRECLUDE THE PRODUCT SAFETY DATA SHEET)

- Irritant to the eyes, respiratory system and skin
- May cause sensitivity in contact with the skin;
- Do not inhale the dust;
- Avoid contact with the skin and eyes;
- In case of contact with the eyes, wash immediately with plenty of water and consult a specialist;
- Wear suitable protective clothing and gloves
- Keep out of the reach of children.

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ISOVIT LIME

EN 998-1
Industrial mortar for general use (G) for bonding insulation panels

Declaration of performance DOP.13020

Since the conditions of application of our products are out of our control, we cannot be held responsible for their incorrect use. It is the customer's responsibility to verify the suitability of the product for its intended purpose. In any case our liability is limited to the value of the goods provided by us. The information contained in this factsheet may be changed without notice. In case of doubt, and should you require further clarification, we recommend you contact our technical services.

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