

ISOVIT FIBRAFLEX

FIXING AND LEVELLING WHITE MORTAR FOR EXTERNAL THERMAL INSULATION SYSTEMS

1. DESCRIPTION

ISOVIT FIBRAFLEX is a fibre reinforced fixing and levelling mortar formulated from mixed binders, selected aggregates and additions.

2. FIELD OF USE

ISOVIT FIBRAFLEX is specially designed for fixing and levelling of EPS, XPS panels without film, mineral wool and expanded agglomerate cork boards in thermal insulation systems on exterior, on masonry substrates, cement block, thermal insulation panels and/or hydraulic base substrates, such as concrete and renders, as well as wooden substrates.

ISOVIT FIBRAFLEX is suitable for the renovation of the thermal insulation of painted or ceramic coated facades, since it allows the fixing of external insulation systems directly on this type of substrates with the addition of mechanical fixings—*ISOVIT BUCHA*.

For non-current uses or on particular substrates, we advise you to contact our Technical-Commercial Services.

3. PRODUCT CHARACTERISTICS

Characteristics	Value	Standard
Colour	White	-
Granulometry	< 1 mm	-
Paste product	Value	Standard
Mixing water	24,5 % ± 1,0 %	-
Theoretical consumption	4 to 6 kg/m ² - Fixing 1,6 kg/m ² /mm - Regularization	-
Hardened Product	Value	Standard
Flexural strength	≥ 4,5 MPa	EN 1015-11
Compressive strength	≥ 10 MPa	EN 1015-11
Adhesion to brick / Mode of fracture	≥ 0,8 MPa / A and B	EN 1015-12
Adhesion to the insulation panel (EPS; XPS; ICB)	Break within the insulation	-
Density	1350 ± 150 kg/m ³	EN 1015-10

Capillarity	Class W2	EN 1015-18
Permeability to water vapour	$\leq 15 \mu$	EN 1015-19
Reaction to fire	Class A1	EN 998-1
Thermal Conductivity	0,45 W/(m.°C) (P=50%)	NP EN 1745

4. APPLICATION

a) Substrate preparation

Substrates should be hardened, free from dust, release agents, loose or unstable materials, efflorescence, as well as from any type of material which affects normal adhesion conditions.

Substrates should be levelled, checking with a two-meter ruler that there are no irregularities greater than 1 cm. Otherwise substrates should be levelled with **REDUR MAX FORCE** render.

Pre-applied renders should have a "trowelled" texture and a cure of about 28 days, protected from bad weather.

For applications on painted substrates, there should be sufficient adhesion to withstand the new coating.

If the substrate is an old ceramic coating, it must be sturdy and flat and all pieces must have good adhesion to the substrate. If this is not the case, remove the loose parts and level the coating. If necessary, wash the substrate with suitable detergents in order to remove accumulated dirt and residues on the surface.

b) Mixture preparation

ISOVIT FIBRAFLEX should be prepared by mixing 5,5 to 6,5 litres of clean water (preferably drinkable) per bag of product, using an electric mixer, until a homogeneous paste is obtained.

c) Application

- Adhesion on masonry and uneven substrates (unevenness greater than 1 cm per 2 metres)

Fix the panels laying a string of continuous mortar around the perimeter, adding at least three fixing points in the middle of it. Provide for mechanical fixing with **ISOVIT BUCHA** (recommended minimum – 6 un/m²).

- Adhesion on regular render or concrete surfaces

Simple continuous adhesion should be carried out by using a 10 mm toothed trowel, preferably laying the mortar on the back of the panels. Provide for mechanical fixing with **ISOVIT BUCHA** (recommended minimum – 6 un/m²).

- Fixing recommendations

Fixing procedures should ensure surface uniformity, levelling and non-spacing of the panels, without joint openings and ensuring that there is no mortar left in between.

- Levelling

Apply **ISOVIT FIBRAFLEX** mortar onto the surface of the insulation panels, conveniently arranged and adherent to the substrate. Apply the first layer with notched trowel and, immediately, embed a glass fibre mesh with characteristics appropriate to the application – **ISOVIT REDE 160/343**. The second layer should be applied over the first one to give the surfaces the flatness necessary to receive the final finish.

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d) Restrictions

ISOVIT FIBRAFLEX should not be applied at room and substrate temperatures below 5 °C and above 30 °C.

In case of strong winds, application may cause mortar cracking. In such case, walls should be protected so as to minimize the effects of wind action.

e) Complementary Advices

Do not use *ISOVIT FIBRAFLEX* for filling joints between insulation panels.

No mortar that has exceeded its open time should be applied. Do not soften mortars by adding water after preparation.

Do not add any other products to the mortar. *ISOVIT FIBRAFLEX* should be applied as it is shown in its original packaging.

The mixing water must be free of any impurities (clays, organic matter) and drinking water should be preferably used.

Do not apply on horizontal surfaces or with a tilt of less than 45°.

Protect the top edges of the coating from rainwater.

5. PACKAGING AND VALIDITY

Packaging

25 kg paper bags in plasticized pallets of 60/48 bags.

Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and thoroughly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

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**ISOVIT FIBRAFLEX**

EN 998-1

General (G) purpose industrial mortar for fixing of thermal insulation panels.

Declaration of performance DOP.13002

Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

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