

5.2.1 Special application & construction products

ULTRAFIX THERMO Fiber reinforced adhesive for insulation boards



TECHNICAL SPECIFICATIONS (Measurement conditions 20 °C and 65% R.H.)

Form - Color	Fiber reinforced cementitious mortar - White
Toxic	No
Bulk density of dry mortar	1.40±0.10kg/lt,
Bulk density of fresh mortar	2.00±0.10kg/lt
Maximum grain size	1.3mm
Water requirement	6.5lt water in 25kg mortar
Application temperature	From +5 °C to +35 °C
Pot life	5 hours
Open time, per EN 1346	20 minutes
Time for minor adjustments	25 minutes

MECHANICAL STRENGTHS

Strength after 28 days, per EN 1015-11, to:	
• flexion	6.50±1.00 N/mm ²
• compression	13.00±1.50 N/mm ²
Adhesion strength after 28 days:	
• On concrete, per EN 1015-12	≥ 1.00 N/mm ²
• On expanded polystyrene (EPS), per ETAG 004	≥ 0.08 N/mm ² (exceeds the standard by 50%)
• Capillary water absorption (c), per EN 1015-18	≤ 0.1kg/m ² min ^{0.5}
Reaction to fire, per EN 13501-1	Euroclass A1

CONSUMPTION

As adhesive: 2.5-4kg/m², depending on notch size and substrate.
As mesh coating layer: 1.5kg/m²/mm to cover the fiberglass mesh.

STORAGE

Store in factory sealed packages, in dry and shaded places for a minimum of 12 months from production date.

SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

NOTE

- After hardening, the product is harmless to health and the environment

PACKAGING

Paper bag of 25kg on 1.500kg pallet

PROPERTIES

Cementitious adhesive, suitable for adhesion of polystyrene insulation boards. Advanced technology resins are contained within its fiber reinforced composition, providing great adhesion to substrates made of concrete, plaster, brick or cinderblock, as well as providing it with the crucial flexibility required in its various applications. Classified GP: CS IV/W2 per EN 998-1.

APPLICATIONS

For external thermal insulation systems for buildings: Great bonding ability, suitable for adhering thermal insulation boards to building facades but also applied as their top coat, in combination with the reinforced fiberglass mesh, DS-4160 of DUROSTICK.

USE

1. Surface preparation

The application surface should be flat, clean and free from deteriorated sections, dust and oils. All highly absorbent surfaces must be soaked with water or primed with the micromolar primer, AQUAFIX of DUROSTICK which stabilizes and creates the ideal conditions for adhesion with the substrate.

2. Application

Empty the mortar in approximately 6.5lt of clean, cool water, and mix with a low rpm electric mixer. Allow for the mixture to mature for 5-10 minutes. Mix occasionally during use without adding extra water.

- **On flat surfaces:** Spread the adhesive onto the insulation board. 'Comb' the adhesive evenly throughout the surface and place it on the wall.

- **On non-flat surfaces:** Apply the adhesive around the edges of the insulating board with a margin trowel and on spots (dots) to the rest of the surface. Place the board on the wall and apply pressure on its surface, to ensure safe and uniform contact between the adhesive and the substrate. The installation requires levelling, in order to ensure the evenness of the adhered board surface. At least 24 hours later, depending on the building size and height, apply the appropriate number of plastic fasteners (anchors).

- **Apply as reinforcing top coat for insulating boards:** Using a notched trowel, apply across the entire surface, a thin (3-5mm) layer of the adhesive, and encapsulate in it the reinforcing fiberglass mesh of DUROSTICK DS-4160. Using the trowel, and once the mesh installation is completed smooth the surface.

On complete cure, coat the surface with HYDROSTOP PLASTER ELASTIC, the waterproof flexible plaster, available in smooth or textured finish.

Alternately, use HYDROSTOP SILICONE PLASTER or HYDROSTOP ACRYLIC PLASTER, both plasters in paste form.

CLEANING

Clean tools and equipment with water, immediately after use.

