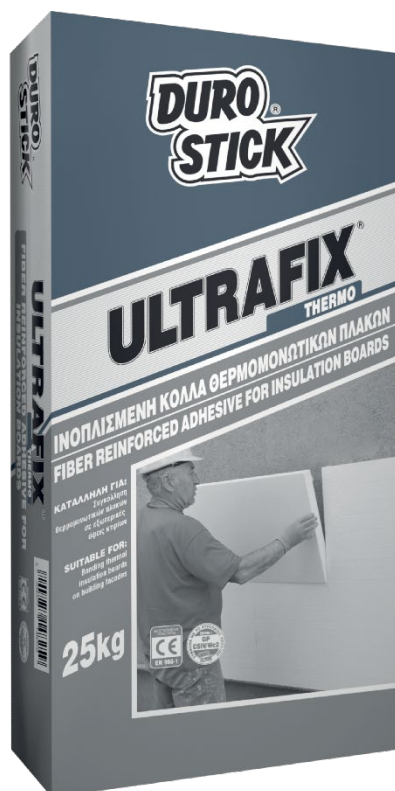


ULTRAFIX THERMO



Fiber-reinforced adhesive for insulation boards



■ PROPERTIES

Cementitious adhesive, suitable for adhering polystyrene insulation boards. Polymer 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 for various applications.

Classified GP: CSIV/Wc2 per EN 998-1.

■ APPLICATIONS

ULTRAFIX THERMO is designed for use in external thermal insulation systems for buildings. It offers great bonding ability for adhering thermal insulation boards to building facades and can also be applied as a base 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 loose 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 25kg of the mortar into 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: Apply the adhesive to the thermal insulating board, comb the adhesive evenly over the entire surface with a notched trowel and install it on the wall.

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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 it as reinforcing top coat for insulating boards: Using a notched trowel, apply across the entire surface, a thin coat (3-5mm) 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. Alternatively, use the plasters in paste form, the silicone-based plaster HYDROSTOP SILICONE PLASTER or either acrylic-based plaster HYDROSTOP ACRYLIC PLASTER and HYDROSTOP THERMO PLASTER of DUROSTICK.

■ CLEANING

Clean tools and equipment with water, immediately after use.

■ 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 the factory sealed packages, in dry and shaded places for 12 months from production date.

■ SAFETY DIRECTIONS

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

■ PACKAGING

Paper bag of 25kg on 1.500kg pallet

TECHNICAL SPECIFICATIONS

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

■ Form - Color	Cementitious mortar - White, Gray
■ Bulk density of dry mortar	1.40±0.10kg/lt
■ Bulk density of fresh mortar	2.00±0.10kg/lt
■ Maximum grain size	600µm
■ Water requirement	6,5lt water for 25kg mortar
■ Application temperature	From +5°C to +35°C
■ Pot life	Approximately 5 hours
■ Open time, per EN 1346	20 minutes
■ Time for minor adjustments	25 minutes

PRODUCT PERFORMANCES

■ Strength after 28 days, per EN 1015-11, in:	
•flexion	6.50±1.00 N/mm ²
•compression	13.00±1.50 N/mm ²
■ Adhesive strength after 28 days	
•On concrete, per EN 1015-12	≥ 1.00 N/mm ²
•On expanded polystyrene (EPS), per EAD 040083-00-0404	> 0.08 N/mm ² (exceeds the standard by 50%)
■ Capillary water absorption (c), per EN 1015-18	≤ 0.10kg/m ² .min ^{0.5}
■ Water vapor diffusion coefficient per EN 1015-19	µ15/35
■ Thermal conductivity λ _{10, dry} per EN 1745 (Table A. 12)	0.82 W/m.K
■ Reaction to fire	Class A1

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