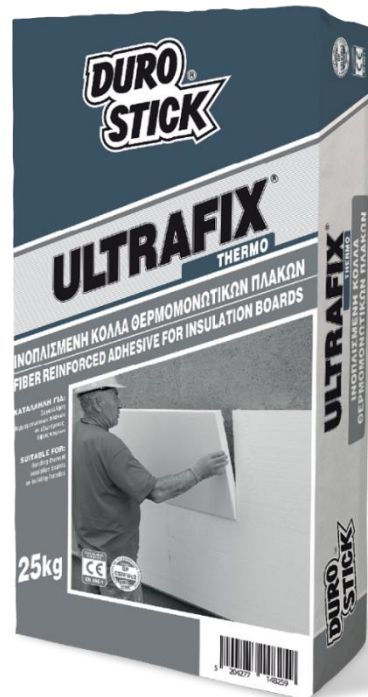


ULTRAFIX THERMO



Fiber-reinforced adhesive for insulation boards



■ PROPERTIES

Cementitious adhesive, suitable for installing polystyrene insulation boards. Its fiber-reinforced formula contains polymeric resins which provide strong adhesion to substrates made of concrete, plaster, brick, or cinderblock, as well as with the crucial flexibility required in its various applications. Classified GP: CS IV/Wc2 per EN 998-1.

■ APPLICATIONS

ULTRAFIX THERMO is suitable for external thermal insulation systems for buildings. It offers great bonding ability for adhering thermal insulation boards to building facades but it is also applied as their 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 materials, 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:** 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.

- **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.

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The installation requires leveling, 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 encase 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 silicone based plaster HYDROSTOP SILICONE PLASTER or the acrylic based plaster HYDROSTOP ACRYLIC PLASTER, both plasters in paste form.

■ CLEANING

Clean tools and equipment with water, immediately after use.

■ CONSUMPTION

As adhesive: 2.5-4kg/m², depending on the notch size and the 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 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.

■ 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	1.3mm
■ Water requirement	6.5lt water in 25kg mortar
■ Application temperature	From +5°C to +35°C
■ Pot life	At least 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, 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 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	μ 15/35
■ Thermal conductivity λ10, dry per EN 1745 (Table A.12)	0.82 W/m·K
■ Reaction to fire per EN 13501-1	Euroclass A1

DUROSTICK S.A.,
 MANUFACTURING OF ADHESIVES,
 PAINTS & MORTARS
ATHENS: ASPROPYRGOS, ATTICA, GR: 193 00,
 Tel: +30 211 60 03 500-599, +30 210 55 16 500,
 +30 210 55 98 350, Fax: +30 210 55 99 612
THESSALONIKI: INDUSTRIAL PARK-SINDOS, S.B. 44,
 STREET, DA 10, GR: 570 22,
 Tel: +30 2310 795 797, +30 2310 797 365,
 Fax: +30 2310 797 367
 Email: info@durostick.com

The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.