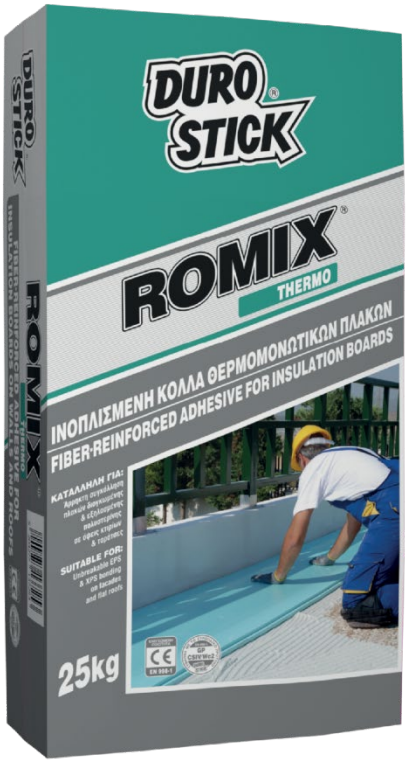
TECHNICAL DATA SHEET

ROMIX THERMO

Fiber-reinforced adhesive for insulation boards on walls and roofs



QUALITY CONTROLLED CE EN 998-1

ACCORDING TO EUROPEAN STANDARD EN 998-1 GP CSIV/Wc2 DURO STICK

■ PROPERTIES

Cementitious adhesive, suitable for the adhesion of expanded (EPS) or extruded (XPS) polystyrene insulation boards, on vertical or horizontal surfaces, for interior and exterior use.
Advanced new technology resins are contained within its fiber reinforced composition, providing it with great adhesion to substrates made of concrete, plaster, brick or cinderblock.
They also provide it with the crucial flexibility necessary in its various applications.
The adhesive meets the requirements of EAD 040083-00-0404
for external thermal insulation systems.
Classified GP: CSIV/Wc2 per EN 998-1.

■ APPLICATIONS

A) For External Thermal Insulation Systems for buildings: Great bonding ability, suitable for adhering thermal insulation boards, EPS and XPS, to building facades but also applied as their base coat, in combination with the reinforced fiberglass mesh, DS-4160 of DUROSTICK.
B) On Thermal Insulation and Waterproofing Systems For Roofs: Securely adheres EPS or XPS thermal insulation boards to the desired thickness. Use it in relevant systems, such as **COOL ROOF** and **COOL ROOF LIGHT.**

■ USE

1. Surface preparation
The application surface must 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
In a clean container, empty 25kg mortar into approximately 6.5lt of clean, cool water, and mix with a low-rpm electric mixer. Allow for the mixture to

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mature for 5-10 minutes. Mix occasionally without adding extra water.

A) On thermal insulation system for building exteriors:

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.

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).

As reinforcing top coat: 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 the flexible, waterproofing cementitious plaster HYDROSTOP PLASTER ELASTIC, 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.

B) For thermal insulation and waterproofing system for roofs: For flat roofs and uneven substrates, apply a layer of adhesive directly on the roof concrete slab and comb it with a notched trowel. Install the insulation boards, covering the entire surface. Allow for 24 hours to pass and prime the surface of the insulation boards with the specialized quartz based, acrylic primer DS-255 of DUROSTICK. The primer application will provide optimal bonding conditions for the cement screed that will be installed next.

Cover the boards with cement screed D-6 of DUROSTICK or coat with a mix of 3 parts sand, 1 part gravel, 1 part cement and 12mm polypro-pylene fibers DUROFIBRE of DUROSTICK (about 900gr/m³), to the required thickness, providing a compact and durable substrate.

Ten days later, coat the cement screed with HYDROSTOP ROOF or TWO-COMPONENT HYDROSTOP, applying three crosswise coats (1mm/coat thickness) using an emulsion brush (broad brush) or roller for rough textures.

For terraces that are under particular loads and stresses or they are larger than 50m², it is recommended to apply and encapsulate the alkalis-resistant fiberglass mesh DS-490 of DUROSTICK (with 4x4mm mesh opening, and weight 90gr/m²) or DUROSTICK DS-4160 (with 4x4mm mesh opening, and weigh160gr/m²).

During the application of the first coat of the waterproofer, encapsulate the fiberglass mesh, **and necessary follow with two more coats**.

This way, proper waterproofing is ensured for many years, in addition to excellent thermal insulation.

For a detailed description of this application please visit our website at www.durostick.com.

■ 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 coat 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, read the safety instructions on the product packaging or the Safety Data Sheet.

■ PACKAGING

Paper bag of 25kg on 1.500kg pallet.

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TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 65% R.H.)	
■ **Form - Color**	Cementitious mortar - White
■ **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 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, to:**	
• **flexion**	6.50±1.00 N/mm²
• **compression**	13.00±1.50 N/mm²
■ **Adhesive strength after 28 days**	
• **On concrete, per EN 1015-12**	≥ 1.20 N/mm²
• **On expanded polystyrene (EPS), per EAD 040083-00-0404**	> 0.10 N/mm² (exceeds the standard by 50%)
• **On extruded polystyrene (XPS), per EAD 040083-00-0404**	> 0.15 N/mm² (exceeds the standard by 70%)
■ **Capillary water absorption (c), per EN 1015-18**	≤ 0.10kg/m²·min$^{0.5}$
■ **Water vapor diffusion coefficient per EN 1015-19**	μ 15/35
■ **Thermal conductivity $\lambda_{10,\,dry}$ per EN 1745 (Table A.12)**	0.82 W/m·K
■ **Reaction to fire**	Class 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