

ISOMAT AK-T35

Fiber-reinforced adhesive for thermal insulation boards

Description

ISOMAT AK-T35 is a fiber-reinforced, cement-based adhesive, enhanced with polymers (resins), with no vertical slip and extended open time. Provides high initial and final adhesive strength, flexibility and resistance to moisture.

Certified according to EN 998-1 and classified as a GP CS IV W2 rendering mortar. CE marked.

ISOMAT AK-T35 has received an Environmental Product Declaration (EPD) following an assessment of its life-cycle environmental impacts. Registration No: S-P-09182, The International EPD® System.

Fields of application

ISOMAT AK-T35 forms part of external thermal insulation systems when used in combination with MARMOCRET-PLUS and MARMOCRYL premium renders.

It is used for bonding thermal insulation boards of extruded or expanded polystyrene, mineral wool, polyurethane, etc. to facades made of concrete, render, or masonry. It is suitable also for indoor applications.

Moreover, ISOMAT AK-T35 can be applied to facade polystyrene insulation boards with reinforcing fiberglass mesh, serving as the ideal substrate for the subsequent coat of render.

Technical data

Form:	cementitious powder
Color:	white, grey
Water demand:	5.50-6.00 l/25 kg bag
Bulk density of dry mortar:	1.50 ± 0.10 kg/l
Bulk density of fresh mortar:	1.65 ± 0.10 kg/l
Application temperature:	from +5°C to +35°C
Pot life:	at least 6 h
Adhesive strength to concrete:	≥ 1.00 N/mm ²
Adhesive strength to expanded polystyrene:	≥ 0.08 N/mm ²
Compressive strength:	≥ 10.00 N/mm ²

Flexural strength:	≥ 3.50 N/mm ²
Capillary water absorption:	≤ 0.2 kg/m ² min ^{0.5}
Thermal conductivity (λ _{10, dry}):	0.45 W/mK
Water vapor permeability coefficient (μ):	15
Reaction to fire:	A1
(EN 13501-1)	
(APPLUS Laboratories – LGAI, Spain, Report No.: 21/32304048-2)	

Directions for use

1. Substrate preparation

The surface to be covered with boards should be free of dust, grease, loose particles, paints, etc. It is recommended to dampen it before application.

2. Application

As adhesive:

ISOMAT AK-T35 is slowly added to water under continuous stirring, until a homogeneous paste is formed. A low-speed mixer is recommended for mixing. The mixture should be left to rest for about 5 minutes before is stirred again for a bit.

Smooth substrate: The adhesive is evenly spread and combed over the entire surface using a notched trowel.

Uneven substrate: The adhesive is applied in strips around the edges of the board and in selected dabs in the center using a trowel. Next, thermal insulation boards are firmly pressed to the desired position.

As reinforced mortar:

First, the material is applied with a smooth trowel at a maximum thickness of 3-4 mm. Then, a reinforcing fiberglass mesh is placed and firmly embedded into the fresh base coat layer with a smooth trowel. Finally, the surface is smoothed out and the excess adhesive is removed.

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Consumption

As adhesive: 3.0-4.0 kg/m², depending on trowel notch size and substrate type.
As reinforced mortar: approx. 1.5 kg/m²/mm.

Packaging

ISOMAT AK-T35 is supplied in 25 kg paper bags.

Storage

12 months from production date if stored in original, unopened packaging in dry and frost-free conditions.



ISOMAT S.A.

17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

13

EN 998-1

**General purpose rendering mortar (GP)
for external use**

DoP No.: ISOMAT AK-T35 GREY/ 1243-04

Reaction to fire: Class A1

Adhesion: 1.0 N/mm² – **FP:** A

Water absorption: W2

Water vapor diffusion coeff.: μ 15

Thermal conductivity: ($\lambda_{10,dry}$) 0.45 W/mK

Durability (against freeze/thaw): evaluation based on provisions valid in the intended place of use of the mortar

ISOMAT S.A.

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P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

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EN 998-1

**General purpose rendering mortar (GP)
for external use**

DoP No.: ISOMAT AK-T35 WHITE/ 1244-03

Reaction to fire: Class A1

Adhesion: 1.0 N/mm² – **FP:** A

Water absorption: W2

Water vapor diffusion coeff.: μ 15

Thermal conductivity: ($\lambda_{10,dry}$) 0.45 W/mK

Durability (against freeze/thaw): evaluation based on provisions valid in the intended place of use of the mortar

ISOMAT S.A.

BUILDING CHEMICALS, MORTARS & PAINTS
HEADQUARTERS – THESSALONIKI, GREECE
17th km Thessaloniki – Ag. Athanasios Road
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece
T +30 2310 576000

www.isomat.eu e-mail: support@isomat.eu