

Fiber-reinforced adhesive for thermal insulation boards

Description

ISOMAT AK-T35 is a fiber-reinforced cement-based adhesive, enriched with polymers (resins). It provides high initial and final adhesive strength, elasticity and resistance to moisture. It is qualified as absolutely non-slip adhesive with increased open time.

Fields of application

ISOMAT AK-T35 is used in combination with the plasters MARMOCRET PLUS and MARMOCRYL, as a system for the external thermal insulation of buildings. It is suitable for fixing thermal insulation polystyrene boards on the facades of buildings. Moreover, when applied reinforced with fiberglass mesh on fixed thermal insulation boards, it constitutes the ideal substrate for the subsequent plaster.

Technical data

Form:	cementitious mortar
Color:	white, grey
Water demand:	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

Isomat® AK-T35 (white)

Adhesive strength to concrete:	≥ 1,00 N/mm ²
Adhesive strength to extruded polystyrene:	≥ 0,08 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 vapour permeability coefficient (μ):	15

Isomat® AK-T35 (grey)

Adhesive strength to concrete:	≥ 1,00 N/mm ²
Adhesive strength to extruded polystyrene:	≥ 0,08 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 vapour permeability coefficient (μ):	15

Directions for use

1. Substrate

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

2. Application

As adhesive:

ISOMAT AK-T35 is gradually added into water under continuous stirring until a homogeneous paste is formed. A low revolution mixer is recommended for mixing. The mixture should be left for about 10 minutes to rest and then should be re-stirred a bit.

On smooth substrates the adhesive is spread on the thermo-insulation board and combed using a notched trowel in order to be uniformly applied on the whole of the surface.

ISOMAT AK-T35



On uneven substrates the adhesive is applied with a trowel around the perimeter of the thermo-insulation board and in selected spots in the center.

Next, the thermo-insulation boards are fixed by pressing them on the desired position.

As reinforced mortar:

Initially the material is applied with a notched trowel in a maximum thickness of 3 mm. On the still fresh layer the fiberglass mesh is placed and pressed with a smooth trowel to get fully encased in the adhesive. Finally, the surface is smoothed out and the excess adhesive is removed.

Consumption

As adhesive: 3,0-4,0 kg/m², depending on the trowel's notch size and the nature of the substrate.

As reinforced mortar: approx. 1,5 kg/m²/mm.

Packaging

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

Storage

12 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

Remarks

- ISOMAT AK-T35 contains cement and reacts as alkaline with moisture, so it is classified as irritant.
- Very porous surfaces such as aerated concrete, gypsum boards, chipboards etc. must be primed first with UNI-PRIMER acrylic primer.
- Consult usage risks and safety advice written on the bag.



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13

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

Reaction to fire: Class A1

Adhesion: 1,0 N/mm² – FP: A

Water absorption: W2

Water vapour 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

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BUILDING CHEMICALS AND MORTARS

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