

# ISOMAT AK-T65

## Adhesive for mineral wool thermal insulation boards

### Description

ISOMAT AK-T65 is a cement-based adhesive, enriched with polymers (resins). It provides high initial and final adhesion strength, elasticity and resistance to moisture.

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

ISOMAT AK-T65 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-T65 forms part of external thermal insulation systems when used in combination with MARMOCRET-PLUS and MARMOCRYL premium renders.

It is used for bonding mineral wool insulation boards to facades made of concrete, render, or masonry. It is suitable also for indoor applications. Moreover, ISOMAT AK-T65 can be applied to facade insulation boards with reinforcing fiberglass mesh, serving as the ideal substrate for the subsequent coat of render.

### Technical data

Form:	cementitious powder
Color:	grey
Water demand:	6.00 l/25 kg bag
Bulk density of dry mortar:	1.45 ± 0.10 kg/l
Bulk density of fresh mortar:	1.60 ± 0.10 kg/l
Application temperature:	from +5°C to +35°C
Pot life:	at least 4 h
Compressive strength:	≥ 12.00 N/mm <sup>2</sup>
Flexural strength:	≥ 5.00 N/mm <sup>2</sup>
Adhesion on concrete (28 days):	≥ 1.30 N/mm <sup>2</sup>
Adhesion to mineral wool (28 days):	≥ 0.05 N/mm <sup>2</sup> (MW failure)
Capillary water absorption:	≤ 0.1 kg/m <sup>2</sup> min <sup>0.5</sup>

Thermal conductivity (λ<sub>10,dry</sub>): 0.43 W/mK

Water vapour permeability coefficient (μ): 19

Reaction to fire: A1 (EN 13501-1)  
(APPLUS Laboratories – LGAI, Spain, Report No.: 21/32304166-2)

### 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 the substrate be dampened prior to application.

#### 2. Application

##### As adhesive:

ISOMAT AK-T65 is gradually 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 approx. 5 min and then re-stirred for a bit.

Smooth substrate: The adhesive is evenly spread 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.

### Consumption

As adhesive: 3.0-4.0 kg/m<sup>2</sup>, depending on trowel notch size and substrate type.

As reinforced mortar: approx. 1.5 kg/m<sup>2</sup>/mm.

# ISOMAT AK-T65

## Packaging

ISOMAT AK-T65 is supplied in 25 kg paper bags.

## Shelf life – Storage

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

## Remarks

- ISOMAT AK-T65 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 the acrylic primer UNI-PRIMER.
- Please consult the directions for safe use and precautions written on the packaging before use.



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**EN 998-1**

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

DoP. No.: ISOMAT AK-T65/1241

**Reaction to fire:** Class A1

**Adhesion:** 1,3 N/mm<sup>2</sup> – **FP:** A

**Water absorption:** W2

**Water vapour diffusion coeff.:**  $\mu$  19

**Thermal conductivity:** ( $\lambda_{10, dry}$ ) 0,43 W/mK

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

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