

## Fast-setting polymer modified tile adhesive

### Description

ISOMAT AK-RAPID is a fast-setting, polymer modified cement-based tile adhesive. It provides high initial and final adhesive strength and moisture resistance. It is qualified as absolutely non-slip (zero slipping of the tile). It is classified as type C2 FT adhesive according to EN 12004.

### Fields of application

ISOMAT AK-RAPID is suitable for fixing absorptive or non-absorptive tiles on walls or floors on surfaces made of concrete, brickwork, plaster etc., indoors or outdoors. It is ideal in cases where the surfaces have to be delivered fast for use, e.g. work areas etc.

### Technical data

Form:	cementitious mortar
Colors:	grey, white
Water demand:	6,50 l/25 kg bag
Application temperature:	from +5 <sup>0</sup> C to +35 <sup>0</sup> C
Application thickness:	up to 10 mm
Pot life:	at least 90 min
Open time:	at least 20 min
Minor adjustments open time:	at least 10 min
Slip:	≤ 0,5 mm
Pointing on walls:	after 1 h
Pointing on floors:	after 1-3 h
Adhesive strength after:	
• 3 hours:	≥ 0,15 N/mm <sup>2</sup>
• 6 hours:	≥ 0,50 N/mm <sup>2</sup>
• 28 days:	≥ 1,40 N/mm <sup>2</sup>
• heating in +70 <sup>0</sup> C:	≥ 1,00 N/mm <sup>2</sup>
• immersion in water:	≥ 1,00 N/mm <sup>2</sup>
• 25 freeze-thaw cycles:	≥ 1,00 N/mm <sup>2</sup>

Temperature resistance: from -30<sup>0</sup>C to +90<sup>0</sup>C

All measurements were conducted according to EN 12004.

### Directions for use

#### 1. Substrate

The surface to be overlaid must be clean, free of dust, grease, paint, loose material etc. Dampening of the substrate before application is recommended.

#### 2. Application

ISOMAT AK-RAPID is gradually added into water under continuous stirring, until a uniform paste is formed. A low revolution mixer is recommended for mixing.

The mixture should be left about 10 minutes to settle and should be stirred slightly again. The tile adhesive should be spread ("combed") on the substrate using a notched trowel, in order to be uniformly applied on the whole surface. The marble or granite should be fixed by pressing them in the desired position.

The applied mixture must be covered with marble or granite within 20 minutes in order to void "skin" formation, i.e. before the adhesive film starts setting.

### Elastification

For tiling on unstable substrates subject to vibrations or contraction-expansion effects, such as gypsum boards, chipboards, in-floor heating floors, terraces, balconies etc. it is necessary that the tile adhesive be elastified with the addition of 2,5-5 kg of ADIFLEX-B to 25 kg of ISOMAT AK-RAPID plus a quantity of water depending on the desired workability.

### Consumption

1,5-4,0 kg/m<sup>2</sup>, depending on the trowel's notch size and the nature of the substrate.

# ISOMAT AK-RAPID



## Packaging

ISOMAT AK-RAPID is supplied in paper bags of 25 kg and plastic bags of 5 kg in white color and 25 kg bags in grey color.

## Shelf-life - Storage

- Paper bags of 25 kg:  
12 months from production date
- Plastic bags of 5 kg:  
18 months from production date

All of the above are in effect if the product is stored in original unopened packaging, in places protected from moisture and frost.

## Remarks

- ISOMAT AK-RAPID 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.

## ISOMAT AK-RAPID GREY

<b>ISOMAT S.A.</b> 17 <sup>th</sup> km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag Athanasios, Greece 10	
<b>EN 12004:2007+A1:2012</b> <b>DoP No.: ISOMAT AK-RAPID GREY/1046-01</b> <b>NB: 2032</b> Improved, fast setting, cementitious adhesive with reduced slip, for internal and external tiling.	
<b>Reaction to fire</b>	Class A1
<b>Release of dangerous substances</b>	See MSDS
<b>Bond strength, as:</b>	
- Early tensile adhesion strength	≥ 0,5 N/mm <sup>2</sup>
- initial tensile adhesion strength	≥ 1 N/mm <sup>2</sup>
<b>Durability, for</b>	
- tensile adhesion strength after heat ageing	≥ 1 N/mm <sup>2</sup>
- tensile adhesion strength after water immersion	≥ 1 N/mm <sup>2</sup>
- tensile adhesion strength after freeze thaw cycles	≥ 1 N/mm <sup>2</sup>



# ISOMAT AK-RAPID



## ISOMAT AK-RAPID WHITE

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<b>EN 12004:2007+A1:2012</b> <b>DoP No.: ISOMAT AK-RAPID WHITE/1048-01</b> <b>NB: 2032</b>  Improved, fast setting, cementitious adhesive with reduced slip, for internal and external tiling.	
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### ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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