

Light-weight, flexible tile adhesive

Description

ISOMAT AK-LIGHT is a high quality, light weight polymer-modified, cement-based tile adhesive. Due to its light weight, the tile fixing is much more easy and the required quantity is reduced compared to an adhesive with regular aggregates. It provides high initial and final adhesive strength, resistance to moisture and elasticity. It is qualified as absolutely non-slip (zero slipping of the tile) and possesses increased open time.

It is classified as type C2 TE S1 adhesive according to EN 12004 and EN 12002.

Fields of application

ISOMAT AK-LIGHT is suitable for fixing absorptive or non-absorptive tiles (e.g. "gres porcelanato"), natural stone, decorative bricks, large tiles, glass mosaic tiles etc. on walls or floors on various substrates, especially where particularly high adhesion, elasticity and moisture resistance are required (e.g. old tile layers, floors with in-floor heating, metallic surfaces, swimming pools, gypsum boards etc.). Suitable for indoor or outdoor use.

Technical data

Form:	cementitious mortar
Color:	white
Water demand:	8,10 l/18 kg bag
Application temperature:	from +5°C to +35°C
Application thickness:	up to 15 mm
Pot life:	at least 6 h
Open time:	at least 30 min
Minor adjustments open time:	at least 30 min

Slip:	≤ 0,5 mm
Pointing on walls:	after 3-8 h
Pointing on floors:	after 24 h
Adhesive strength after:	
• 28 days:	≥ 1,90 N/mm ²
• heating in +70°C:	≥ 1,90 N/mm ²
• immersion in water:	≥ 1,50 N/mm ²
• 25 freeze-thaw cycles:	≥ 1,50 N/mm ²
Temperature resistance:	from -30°C to +90°C
Deformation ability according to EN 12002:	> 2,5 mm

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-LIGHT 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 tiles should be fixed by pressing them in the desired position.

The applied mixture must be covered with tiles within 30 minutes in order to avoid "skin" formation, i.e. before the adhesive film starts setting.

ISOMAT AK-LIGHT



Consumption

1,0-3,0 kg/m², depending on the trowel's notch size and the nature of the substrate.

Packaging

ISOMAT AK-LIGHT is supplied in paper bags of 18 kg.

Shelf-life - Storage

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

Remarks

- ISOMAT AK-LIGHT 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 S.A.

17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag Athanasios, Greece
08

EN 12004:2007+A1:2012
DoP No.: ISOMAT AK-LIGHT/1040-01
NB: 2032

Improved deformable cementitious adhesive with reduced slip and extended open time, for internal and external tiling.

Reaction to fire	Class A1
Release of dangerous substances	See MSDS
Bond strength, as:	
- initial tensile adhesion strength	≥ 1 N/mm ²
Durability, for	
- tensile adhesion strength after heat ageing	≥ 1 N/mm ²
- tensile adhesion strength after water immersion	≥ 1 N/mm ²
- tensile adhesion strength after freeze thaw cycles	≥ 1 N/mm ²

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

MAIN OFFICES - FACTORY:

17th km Thessaloniki - Ag. Athanasios Road,
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
Tel.: +30 2310 576 000, Fax: +30 2310 722 475

www.isomat.net e-mail: info@isomat.net

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Department of Research and Development of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product.

