

## Thin layer masonry mortar for fixing aerated concrete blocks

### Description

ISOMAT AK-BLOCK is a high quality cement-based mortar for fixing aerated concrete blocks. It provides high initial and final adhesive strength and moisture resistance. It possesses increased open time for the application.

Certified with the CE marking, according to EN 998-2, as a designed thin layer masonry mortar, for external use, in elements subject to structural requirements. Certificate number: 0906-CPR-02412008.

### Fields of application

ISOMAT AK-BLOCK is used for fixing aerated concrete elements.

### Technical data

Form:	cementitious mortar
Color:	grey
Water demand:	6.00 l/25 kg bag
Application temperature:	from +5°C to +35°C
Application thickness:	up to 10 mm
Pot life:	at least 4.5 h
Maximum grain size: (EN 1015-1)	0.5 mm
Correction time: (EN 1015-9)	>7 min
Compressive strength: (EN 1015-11)	Category M 5
Initial shear strength: (tab. value)	0.3 N/mm <sup>2</sup>
Reaction to fire: (EN 13501-1)	Class A1
Density (dry hardened mortar): (EN 1015-10)	1450 kg/m <sup>3</sup>
Water absorption: (EN 1015-18)	0.3 kg/m <sup>2</sup> min <sup>0.5</sup>

Water vapor permeability:  $\mu$  5/20  
(EN 1745, tab. value)

Thermal conductivity:

( $\lambda_{10,dry}$ ) 0.45 W/mK  
(EN 1745, tab. mean value; P = 50 %)

Temperature resistance: from -30°C to +90°C

### Directions for use

The aerated concrete elements must be free of dust. ISOMAT AK-BLOCK 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 rest and should be stirred slightly again. The mortar is spread on the substrate using a notched trowel, in order to be applied uniformly on the whole surface. The aerated concrete elements are fixed by pressing them in the desired position.

### Consumption

Approx. 13 kg for building 1 m<sup>3</sup> of aerated concrete wall.

### Packaging

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

### Shelf-life - Storage

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

# ISOMAT AK-BLOCK



## Remarks

- ISOMAT AK-BLOCK contains cement, which reacts as alkaline with water and is classified as irritant.
- Consult the safety advice and precautions written on the packaging.



0906

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0906-CPR-02412008  
DoP No.: ISOMAT AK-BLOCK GREY/1245-02

### EN 998-2:2010

Designed thin layer masonry mortar for external use in elements subject to structural requirements

**Maximum grain size:** 0.5 mm

**Correction time:** > 7 min

**Compressive strength:** Category M 5

**Initial shear strength:** 0.3 N/mm<sup>2</sup> (tab. value)

**Reaction to fire:** Class A1

**Density (dry hardened mortar)** 1450 kg/m<sup>3</sup>

**Water absorption:** 0.3 kg/m<sup>2</sup>min<sup>0.5</sup>

**Water vapor permeability:**  $\mu$  5/20 (tab. value)

**Thermal conductivity:** ( $\lambda_{10,dry}$ ) 0.45 W/mK (tab. mean value; P = 50 %)

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

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