

ISOMAT AK-GLASS

Polymer-modified adhesive for laying and grouting glass blocks

Description

ISOMAT AK-GLASS is a polymer-modified, cement-based adhesive for laying and grouting glass blocks. It features excellent workability, superior adhesion to glass blocks and resistance to abrasion and moisture.

Certified according to EN 998-2 and classified as a designed general-purpose masonry mortar, for external use, in elements subject to structural requirements. CE marked. Certificate No.: 0906-CPR-02412008.

Fields of application

ISOMAT AK-GLASS is used for laying and grouting glass blocks.

Technical data

Form:	cementitious powder
Color:	white
Water demand:	5.50 l/25 kg bag
Application temperature:	from +5°C to +35°C
Compressive strength: (EN 1015-11)	Category M 20
Flexural strength:	5.5 N/mm ²
Initial shear strength: (tab. value)	0.15 N/mm ²
Reaction to fire: (EN 13501-1)	Class A1
Density (dry hardened mortar): (EN 1015-10)	1,700 kg/m ³
Water absorption: (EN 1015-18)	0.3 kg/m ² min ^{0.5}
Water vapour permeability: (EN 1745, tab. value)	μ 15/35
Thermal conductivity: (λ _{10, dry}) (EN 1745, tab. mean value; P = 50 %)	0.75 W/mK
Pot life:	at least 3.5 h

Directions for use

1. Substrate

Glass blocks and the substrate must be free from any dust, contaminants, grease, etc.

2. Application

Slowly add ISOMAT AK-GLASS to water under continuous stirring until a mixture with the desired workability is formed. It is recommended to use a low-speed mixer. Leave the mixture to stand for about 5 min and then stir again.

For laying, use a trowel or spatula to spread the adhesive evenly over the substrate. In positioning the glass blocks, add enough adhesive to the sides of the blocks and then embed them firmly into the applied adhesive. Use plastic spacers or other accessories to ensure that the joints are of uniform width.

For grouting, use a special gauging trowel to apply the same material.

For finishing, remove all excess material from the joints and the faces of the blocks using a damp sponge.

Consumption

Approx. 13 kg for building 1 m² of wall, depending on the dimensions of the glass blocks used.

Packaging

ISOMAT AK-GLASS is supplied in paper bags of 25 kg and plastic bags of 5 kg.

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.

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Remarks

- When laying ISOMAT AK-GLASS, care should be taken to properly fill glass block joints to prevent air entrapment in the mass of the adhesive.
- Due to cement content, ISOMAT AK-GLASS reacts with water forming an alkaline solution, and thus is classified as irritant.
- Please consult the directions for safe use and precautions written on the packaging before use.



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ISOMAT S.A.

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0906-CPR-02412008

DoP No.: ISOMAT AK-GLASS/1249-02

EN 998-2:2010

Designed general purpose masonry mortar for external use in elements subject to structural requirements

Compressive strength: Category M 20

Initial shear strength: 0.15 N/mm² (tab. value)

Reaction to fire: Class A1

Density (dry hardened mortar) 1700 kg/m³

Water absorption: 0.3 kg/m²min^{0.5}

Water vapour permeability: μ 15/35 (tab. value)

Thermal conductivity: ($\lambda_{10, dry}$) 0.75 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

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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