Technical Datasheet

ISOMAT MT-80

Pre-mixed, cement-based mortar for masonry

Description

ISOMAT MT-80 is pre-mixed, cement-based mortar that is used for building various types of building materials. Its usage requires only the addition of water.

- It simplifies and accelerates the applications.
- Provides high initial and final adhesive strength.
- It has excellent workability.
- Suitable for indoor and outdoor applications.
- Due to the special particle size granulation of the product, the mortar flows slightly but does not collapse under the weight of the masonry units.

It is certified with the CE marking, according to EN 998-2, as a designed general purpose masonry mortar, for external use, in elements subject to structural requirements. Certificate number: 0906-CPR-02412008.

Fields of application

It is used on various types of building materials such as bricks, blocks, aerated concrete blocks, stone, etc.

Technical data

Form:	cementitious powder
Color:	grey
Particle size:	up to 3 mm
Water demand:	3.25 l/25 kg bag
Bulk density of dry mortar:	1.70 ± 0.10 kg/l
Bulk density of fresh mortar:	1.80 ± 0.10 kg/l
Compressive strength: (EN 1015-11)	Category M 5
Flexural strength:	>2.00 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)	1,600 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 ($\lambda_{10,dry}$): (EN 1745, tab. mean value; P = 50 %)	0.67 W/mK
Pot life:	4.5 h at +20^{0}C

Directions for use

ISOMAT MT-80 is added into water under continuous stirring, until a mortar with the required workability is formed.
The mortar is applied, using a trowel.

Consumption

Indicative consumption 20 kg/m^2 of masonry, for bricks of dimensions 6x9x12 cm.

Packaging

ISOMAT MT-80 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

- Temperature during application should be at least +5^{0}C.
- ISOMAT MT-80 contains cement and reacts as alkaline with water, so it is classified as irritant.
- Consult the usage risks and safety instructions written on the packaging before use.

ISOMAT MT-80

CE

0906

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DoP No. ISOMAT MT-80/1246-02

EN 998-2:2010

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

Compressive strength: Category M 5

Initial shear strength: 0,15 N/mm^2 (tab. value)

Reaction to fire: Class A1

Density (dry hardened mortar) 1600 kg/m^3

Water absorption: 0,3 kg/m^{2}min^{0,5}

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

Thermal conductivity: ($\lambda_{10,dry}$) 0,67 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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