KSK Winter

Winter adhesive mortar for cellular concrete blocks and silicate bricks

Properties:

- **M15 mortar class**
- **thin-bed**
- **for masonry in lower temperatures**
- **high adhesion to the surface of the block**
- **resistant to weather conditions**
- **vapour-permeable**
- **plastic**
- **frost-proof and waterproof**
- **easy to apply**
- **colour: off-white**

Designed use:

- for masonry of internal and external walls at low temperatures from 0°C to 5°C
- for masonry of load-bearing and partition walls
- for the construction of walls from cellular concrete blocks, silicate blocks and thermal insulation blocks
- for the construction of walls from calibrated blocks
- mortar layer thickness of 1 to 3 mm

Quality and reliability:

- mortar class M15 according to EN 998-2
- binder in accordance with EN 197
- subject to permanent quality assurance under ISO 9001
- chromium VI content reduced to <2 ppm

Substrate preparation:

The substrate and the blocks used for masonry must be dry, clean and free from impurities that reduce the adhesion of the mortar. The first layer of blocks should be carefully levelled.

Application:

Pour the contents of the 25 kg package into a container containing approx. 5 litres of clean water and mix thoroughly using a slow speed mixer until a homogeneous lump-free mass is obtained. The mortar is suitable for use after approx. 5 minutes of curing. The mortar prepared this way should be mixed again and then used within approx. 1 hour. Apply the mortar evenly with special applicators, thinset mortar dispensers or with a toothed trowel. Mortar layer thickness of 1 to 3 mm depending on the manufacturing precision of the blocks. For blocks without profiled “interlocking”, the mortar should also be applied to the vertical surfaces of the blocks. Apply the mortar to a small area, lay the blocks before the mortar loses its adhesive properties. After laying, press down the blocks slightly and tap them with a rubber mallet. Observe the principles of thinset mortar masonry and the recommendations of the block manufacturers. Work should be carried out at air and substrate temperatures above 0°C. The setting process of winter mortar takes place even when the ambient temperature drops to -10°C. Protect the fresh mortar from adverse atmospheric conditions causing rapid drying and from frost below - 10°C and rain.

Consumption:

Mortar consumption at 1 mm horizontal joint thickness for cellular concrete block

Block dimension L x H x W	**Consumption**
590 x 240x 120 mm	approx. 1,0 kg/ m²
590 x 240 x 240 mm	approx. 2,0 kg/m²
590 x 240 x 360 mm	approx. 3,0 kg/ m²

Mortar consumption at 2 mm horizontal joint thickness for silicate brick

Silicate brick dimension L x H x W	**Consumption**
280 x 220 x 80 mm	approx. 1,0 kg/ m²
280 x 220 x 120 mm	approx. 2,0 kg/m²
280 x 220 x 240 mm	approx. 3,0 kg/ m²

In addition, the brick manufacturer's information should be consulted.

Application temperature:

Air and substrate temperature during application from +0°C to +5°C.

Tool cleaning:

Water and hard brushes. When the mortar has set, it should be cleaned mechanically.

Storage:

In original factory packaging, in a dry place on wooden pallets. Storage time: 12 months from the date of production.

Packaging:

25 kg bags.

Safety:

This product contains cement that can cause allergy. After exposure to water or moist the product becomes alkaline. Therefore, it is necessary to protect the eyes and skin. Rinse thoroughly the skin surface exposed to mortar. If mortar comes into contact with the eyes, it is necessary to rinse the affected eye with plenty of water and seek medical advice immediately.

Note:

The presented technical information has been obtained by extensive tests and many years of practice. However, it cannot be applied to all particular applications. Therefore, we strongly recommend that you perform application tests on your own. We reserve the right to introduce technical order changes as part of product development.

Specifications:

mortar class	M15 according to EN 998-2
maturation time	approx. 5 min
usability time	approx. 1 godz.
time of correction	≥ 5 min
granulation	up to 1,2 mm
water consumption	approx. 5 l per 25 kg
consumption	depends on brick dimensions
storage	in a dry place 12 months from the date of production
packaging	25 kg

Specifications apply to the temperature of 20°C and the relative humidity of 65%.

CE 1488	
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KSK winter	
No-QM-260365-T	
EN 998-2:2016	
Thin-bed masonry mortar for interior and exterior use, for masonry walls, columns and partitions.	
Compressive strength:	M15
Bond strength:	Initial shear strength of masonry mortars ≥ 0.2 N/mm² (measured according to EN 1052-3, method B)
Chloride conten:	≤0,1 %Cl

Fire reaction class:	A1
Water vapour permeability:	Water vapour diffusion coefficient μ 15/35 (Tab value EN 1745:2012, table A.12)
Thermal conductivity coefficient $\lambda_{10,dry,mat}$	0,82 W/(mK) at P=50% 0,89 W/(mK) at P=90% (Tab value EN 1745:2012, table A.12)

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Once this technical manual is published, any previous manuals expire.

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