

Cellucim

Thin layer masonry mortar/adhesive for aerated concrete



0965-CPD-MM0503/505

Field of Application

For assembling lightweight masonry blocks or aerated concrete.
For interior and exterior use.

Composition

Cellucim is a homogeneous mixture of white Portland cement, calibrated quartz white sand, and special additives and admixtures enhancing the mortar characteristics :

- Binders: white Portland cement composed according to EN 197-1.
- Granulate: sieved and recomposed sand according to EN 13139.
- Additives: specific additives to enhance the mortar's application, the water retention and the bond strength of the mortar.

Characteristics

Cellucim is a dry, ready-to-mix cementitious adhesive for laying aerated concrete blocks and calcium silicate blocks (mortar type T). Because of its composition, Cellucim possesses high water retention, which ensures perfect adherence.

Preparation substrate

Blocks must not be water-saturated.
Dry blocks must be pre-moistened.
Blocks must be free of dust.

When laying the blocks the ambient temperature cannot be lower than 5 °C, nor higher than 30 °C.
Never work on a substrate that is frozen, thawing or likely to freeze in the following 24 hours.
The work should be protected from cold, heavy rain and wind.

In all adverse weather conditions, appropriate protective measures must be taken to protect the mortar from washing, freezing or drying too fast.

Preparation mixture

Mix, preferably mechanically, with clean water (6 to 7 litres per 25 kg bag) to the desired consistency.
The mixture should be homogeneous without lumps.
After mixing, Cellucim should be used within 2 hours.
Mortar that has started to harden cannot be remixed or reused

Application

Apply Cellucim using a trowel, an adhesive comb or scoop or a thin bed mortar applicator.
The thickness of the joint is around 2 to 3 mm.
Settle blocks with a rubber mallet.
Remove excess thin layer mortar with a trowel while setting.

Consumption

For laying blocks with a thickness of:

- 20 cm: 3.6 kg/m²
- 30 cm: 5.5 kg/m²

Yield: 750 L/ton of dry mortar.

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Technical data

Compressive strength	category M10
Compressive strength at 28 days	15.0 N/mm ²
Flexural strength at 28 days	> 3.0 N/mm ²
Bond strength at 28 days	> 0.3 N/mm ²
Grain size	0/0.5 mm
Water requirement	± 25%
Air content	± 20%
Water retention	± 100%
Flow rate/yield	750 L/ton
Density hardened mortar	± 1,500 kg/m ³
Correction time	> 7 min.

Packaging

Cellucim is packed in 25 kg bags on 1,200 kg shrink-wrapped europallets.
The shelf life is 12 months in its original, closed packaging and protected from moisture.

Remarks

The application should be carried out according to the rules of best practice and should be compliant with the BBRI (Belgian Building Research Institute) and WTCB Technical Information.

Classification

Cellucim is a thin layer masonry mortar for aerated concrete according to EN 998-2.
CE: 0965-CPR-MM 505.
Type of mortar: A/B and T.