



ADHESIVE MORTAR FOR ALL BRICK TYPES

Characteristic product properties

- Suitable for all brick types and small natural stone blocks
- More intense façade colour due to narrow recessed joints (3 - 6 mm)
- 4 times more resistant, greater moisture resistance and efflorescence-arm
- 3 types: A (highly porous bricks), B (moderately porous bricks) and C (low porosity bricks)

Applications

Suitable for all kinds of brick façades on internal and external walls. Narrow beds and vertical joints give your brick wall, façade, balcony or column a contemporary look. Narrow joints, combined with highly moisture-resistant bricks and adhesive mortar, make it possible to create façades with open vertical joints. Using an adhesive mortar of the same colour and recessed joints means that the adhesive can hardly be seen. This enables you to obtain a façade with intense colours that make the bricks look even better. Three types of adhesive mortar are available as standard versions (A, B or C), so that you can apply bricks with different water absorption coefficients equally quickly and under a variety of conditions.

This adhesive mortar has superior physical qualities, such as frost resistance, deformation capacity, adhesion and bending tensile strength. For example, high adhesion and bending tensile strength values mean that PVM omnifix can be used to make prefabricated components and corner pieces. Apart from the possible appearance of soluble salts in the bricks, this product guarantees that your façade will keep its intense colour.

Preparations

- The construction site must be organised so that the bricks can be applied using the adhesive (scaffolding, water, electricity, stacking and local transport of bricks, facilities for cutting bricks, etc.).
- The bricks must be free of grease and dust. No pre-wetting is required.
- Cut bricks in advance, if necessary.
- Ensure that the right anchor hooks or framework are used.
- Use NIVO omnifix for levelling (prefabricated) components. (See product sheet for further details.)

Processing instructions

- PVM omnifix is very easy to use, using a suitable mixer, spray equipment or by hand.
- Mix with clean running water, according to the following proportions: approx. 4.8 - 5.5 litres of water per 25 kg of powder, depending on the type, colour and desired working consistency. This dosage has to be very exact, especially if you wish to pump the mortar.
- Make sure that you begin by pouring all the water into the mixer, before adding the powder evenly and mixing.
- Mix the mortar for at least 4 minutes until you obtain a homogeneous mass without any lumps. After ± 5 minutes, you will have obtained a working consistency, which will remain constant for as long as it takes to complete the task. The mixing period is controlled by the pump. If the adhesive is prepared by hand, it is essential that you continue mixing for 4 minutes.
- When deciding how thick the layer should be, take into account the tolerances of the brick and required joint thickness.
- If applying the adhesive using a pump: the adhesive mortar is applied by moving the spray over the bricks in longitudinal direction. The spray applies the desired amount of adhesive. The adhesive mortar can be applied in the same way to the end of the brick, using a small trowel. A second person can apply the bricks, which makes it possible to work more quickly.
- Manual application: never mix too much adhesive mortar at a time. Take a brick in your hand and hold it upside down. Spread adhesive mortar on the back/lower side, making sure that you prevent excess adhesive mortar from coming out of the joint when the brick is applied. At the same time, cover one end of the brick with adhesive mortar. After covering it with adhesive mortar, place the brick on the façade.
- The bricks are laid in the traditional way on the façade along a horizontal line.

Additional processing advices

- If using an adhesive mortar pump: after a long break and in hot weather, it may be necessary to remove any mortar that remains in the hose, before beginning work again. During the break, it is also recommended that you immerse the spray nozzle in a bucket of water, in order to prevent it from drying out. NEVER use a loop pump, in order to prevent any adhesive that has already been pumped from going back into the reservoir!
- If excess mortar comes out of the joint, this means that too much adhesive mortar has been applied. Allow to dry for at least 15 minutes before removing it using a jointing tool.
- If it rains, it will be necessary to fully protect newly applied bricks.
- Do not use on a frozen or thawing surface; for 24 hours after application protect against frost.

Last façades





Required tools

- Mixer/spray equipment for applying facing bricks using adhesive
- Trowel
- Doser
- Mixing tray
- Small brick trowel for applying adhesive to brick ends
- Piping bag

Consumption

Use half a brick measuring 12 - 21 kg/m², depending on whether you are using a solid or perforated brick and the joint thickness. Of course, less adhesive mortar is required for open vertical joints. You can calculate the consumption of construction adhesives at: sur.ww.omnicol.eu.

Cleaning tools

After use, immediately clean the equipment and tools thoroughly with water and apply oil to tools.

Product composition

PVM omnifix is a ready-to-use composition of Pure Portland cement, synthetic resins, quartz sands with a max. granulometry of 2 mm and carefully selected additives, together with light-stable pigments in different colour versions.

Technical properties

The product meets the requirements defined in BRL 1905 (P-B), TRA BEN 651N (B) and EN 998-2. The following information was collected during production laboratory tests at TNO Bouw in Rijswijk (NL), TU Eindhoven (NL), IKOB-BKB (NL), FehS (D) and at the actual construction site. It is provided solely for information purposes. These figures do not form the basis of any rights.

- Form on delivery : powder, EN 998-2: high performance masonry mortar, type: adhesive mortar (T)
- Type of joint : S, 3 - 6 mm, in compliance with BRL 1905 (NL) and TRA BEN 651N (B)
- Colours : 22 colours (for further details, please see the colour chart on our website)
- Process time at 20° C : minimum 2 hours
- Min. process temperature : > 0° C (surface and ambient temperature)
- Waiting time : none
- Setting time : approx. 24 hours
- Hardening : after drying, hydraulic setting and polymerisation
- Max. grain size : < 2 mm
- Loss on ignition : ≤ 2,5%
- Frost resistant : yes
- Appropriate brick types : clay bricks: all facing bricks tested in compliance with NBN
concrete bricks: normal and water-repellent concrete bricks
natural stone: small calibrated natural stone blocks

Mortar properties when wet

- Open time : ≥ 4 min. (depending on the brick and adhesive type - A, B or C)
- Volume of mortar obtained : 591 - 609 l/tonne, depending on the water dosage

Mortar properties when dry

- Tensile strength : M20
- Bending tensile strength : ≥ 4.5 N/mm²
- Adhesion : after 28 days: 0.6 N/mm². These values depend on the brick type.
- Fire resistance class : A1
- Water absorption coeff. S : ≤ 0.03 kg/m².sec^{0.5}
- Density : > 2000 kg/m³

External certifications

- KOMO certificate with product certification N° IKB 1358, in compliance with BRL 1905
- CE conformity according to the 2+ system, BÜV NW, Düsseldorf Strasse 50, D-47051, Duisburg under No. 0778, certification 0778-BPR-8.554-2/1 998-2

PVM omnifix can be applied to damp and frost resistant structures (water repellent structures and all structures that are exposed to storms and wind). The adhesive mortar is intended for S-type joints, with an average joint thickness of 3 - 6 mm / for an average joint thickness of 3 - 6 mm.

INITIAL RATE OF WATER ABSORPTION (IRA)			MORTAR TYPE
IRA class	Type facade brick	Initial water absorption (kg/m ² min)	PVM
IRA1	Very low absorption	IRA ≤ 0,5	C
IRA2	Moderate absorption	0,5 < IRA ≤ 1,5	B
IRA3	Normal absorption	1,5 < IRA ≤ 4,0	B
IRA4	Very high absorption	4,0 < IRA	A

IRA: Determined in accordance with EN 772-11

The weather conditions can affect the suction power.

Packaging

- Recyclable polyethylene bags (net content: 25 kg)

Storage and shelf life

Always store in a dry and sheltered place, as the powder is sensitive to moisture. It must also be kept in a dry place on the construction site. The powder can be kept for 12 months in its original sealed packaging.

Health and safety

PVM omnifix also contains Pure Portland cement. More detailed information on safety when handling cement-based products is available on request.

This technical data is based on many years of practical experience and laboratory research. We cannot be held liable for the work produced in accordance with our systems since factors on which we cannot make an assessment or influence also determine the final result. We guarantee that this product is always supplied in a quality that remains the same. If you have any doubts, we recommend performing tests yourself. See www.omnicol.eu for the most recent version of this TDS.