



ATLAS MASONRY MORTAR FOR CLINKER

contains trass

- does not cause salt efflorescence
- does not contaminate brick surfaces
- based on filtered aggregate
- for bricklaying and pointing



Properties

The mortar does not cause salt efflorescence - the mortar is produced on the basis of high-quality pure Portland cement with the addition of trass (a mineral of volcanic origin). The low proportion of batch water, the addition of trass and the selected admixture-free binder protect the mortar against efflorescence.

Filtered aggregate - the quartz aggregate used to produce the mortar has undergone a screening and washing process, so that the gravel grains have been cleaned of impurities, soluble salts and other minerals that are the causes of highs.

UV-resistant - the appropriately selected chemical composition of the powder pigments (iron oxide) makes the mortar resistant to ultraviolet radiation. As a result, the intense colours do not fade during use, and the mortar does not lose its strength parameters.

Very good working parameters - appropriately selected aggregate stack (up to 1.2 mm) makes the mortar easy to apply and form. It is possible to brick large areas without the effect of material flowing out of the lower layers.

Does not stain brick surfaces - the content of specially selected inorganic pigments and the low level of baking water make the surfaces of the bricks easy to clean (dry) with soft brushes - consequently the brickwork is free of dirt.

Compressive strength - category M5.

It has high adhesion to elements with low absorption.

The mortar is vapour-permeable and hydrophobic.

New colour scheme

The mortar is produced in 5 new colours - matching the typical clinker colours: anthracite, grey, beige, graphite, dark brown.

Colour	Number
beige	201
dark brown	241
grey	351
graphite	371
anthracite	391

Purpose

Bricklaying with elements with 3-8 % water absorption: clinker bricks and fittings, solid bricks and natural stone.

Bricklaying with traditional, thick joint - recommended thickness from 6 to 40 mm.

Building of structural and decorative elements - external and curtain walls, manholes, posts, fence walls, etc.

Grouting walls constructed of clinker bricks or clinker tile cladding.

It can be used in the area of old building restoration and conservation of monuments.

Technical data

Bulk density (dry mix)	approx. 1.6 kg/dm ³
Mixing ratio - bricklaying water / dry mix	0.1÷0.12 l / 1 kg 2.5 ÷3.0 l / 25 kg
Mixing ratio - grouting (recommended amount of water) water / dry mix	approx. 0.08 l / 1 kg approx. 2.0 l / 25 kg
Min/max mortar thickness	6 mm / 40 mm
Mortar preparation temperature of the substrate and ambient temperature during the work	from +5 °C to +30 °C
Pot life	approx. 3 hours

Technical requirements

The product complies with the requirements of EN 998-2:2016-12 - mortar produced in the factory according to design, general purpose (G) for use inside and outside, in elements subject to structural requirements, intended for reinforced and unreinforced masonry, for masonry walls, columns and partition walls.

ATLAS MASONRY MORTAR FOR CLINKER (2019) Declaration of performance No. 086/2/CPR EN 998-2:2016	
Intended use: in masonry walls, columns and partitions	
Compressive strength	5.0 N/mm ²
Chloride content	0.07% Cl
Reaction to fire	A1
Water absorption	0, 5 kg/m ² min ^{0.5}

The product has ITB Certificate of Conformity No. **1488-CPD-0013/Z**.

Masonry

Preparation of clinker elements

The clinker elements should be clean, dust-free and dry. During storage, they should be protected from rain and excessive heat. Due to the possibility of slight differences in colour shades between bricks from different production batches, it is recommended to mix bricks from several pallets before starting.

Weather conditions

Before starting work, consideration must be given to both the atmospheric conditions under which the work is carried out and the conditions under which the mortar will set and dry. All work should be carried out at temperatures between +5 °C and +30 °C. During the works and after their completion (for a minimum of 7 days), the bricks should be covered with foil or mats to protect them from possible precipitation and too rapid drying of the mortar caused by wind and sun. Work must not be carried out during precipitation. It is also advisable not to start work when the weather forecasts predict rainfall or a drop in temperature over the next few days. In addition, the masonry structure and its foundations must be protected with suitable insulation against uncontrolled moisture inflow, e.g. from capillary rising from the ground.

Preparation of mortar for bricklaying or pointing

Pour the material from the bag into a clean vessel with a measured amount of water (proportions given in the Technical Data - note: they are different for pointing and for bricklaying) and mix with a drill (or in a concrete mixer) until a homogeneous consistency is obtained. The mortar is suitable for use immediately after mixing and should be used within approximately 3 hours.

One-step bricklaying

Brickwork should be carried out with a 'full joint', as this will reduce the possibility of rainwater penetrating into the partition. The joint thickness should be uniform for the entire layer. A suitable rounded plastic or wooden tool should be prepared in advance for joint profiling. The point at which the joint profiling should commence depends on the weather conditions, the absorptivity of the brick and the mortar setting rate related to these factors. It should take place within a dozen or so minutes after it has been laid, at the moment when a finger applied to the fresh mortar is no longer contaminated. Note - the degree of setting of the mortar during pointing must be the same for the entire surface of the masonry.

Two-stage bricklaying

In order to obtain even joints and maintain the level of successive layers, it is possible to use suitably prepared strips or other such stops (recommended thickness 10÷12 mm), laid on the brick layer along its edge. The first stage - bricklaying - consists in bonding the bricks with mortar leaving the space for the joint (only the space between the slats is filled with mortar). The pointing of the brickwork carried out in this way should be commenced not earlier than after 7 days from the completion of the first stage, also using ATLAS MASONRY MORTAR.

Consumption

A 25 kg bag yields approximately 14 litres of mix.
On average, 1 m² of 12 cm thick masonry, using traditional sized bricks, is used:
- 34 kg mortar with a joint thickness of 1 cm
- 40 kg mortar with a joint thickness of 1.2 cm.

Packaging

25 kg paper bags.

Safety information

Safety information is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

Storage and transport

Information on storage and transport is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

The shelf life of the product (best before use) is 12 months from the production date on the packaging.

Important additional information

Mortar from a single production batch should be used on the isolated section, and the same amount of mixing water should always be used in its preparation.

Particular attention should be paid to the cleanliness of the laying of subsequent elements. If the mortar comes into contact with the face of the brick, the soiling should be removed as soon as possible (preferably dry).

Failure to comply with the recommendations and requirements concerning mortar preparation, use and care may result in the formation of salt and lime efflorescence. The process of efflorescence formation is a natural phenomenon accompanying the use of cement mortars and is not directly related to the use of ATLAS MASONRY MORTAR FOR CLINKER. Salts causing efflorescence may originate from other mortars, from the substrate or from the clinker elements themselves.

Clean the tools with clean water, directly after use. Difficult to remove residues of already set mortar are washed off with ATLAS CEMENT AWAY.

The information contained in the Technical Data Sheet is a basic guideline for the use of the product and does not release you from the obligation to carry out the work in accordance with the rules of the trade and in compliance with health and safety regulations. With the issue of this Technical Data Sheet, all previous ones are no longer valid.

The contents of the Technical Data Sheet and the designations and trade names used therein are the property of Atlas Ltd. Their unauthorised use will be sanctioned.

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