



ATLAS MASONRY MORTAR

traditional masonry mortar

- for ceramic, concrete and silicate elements and silicate elements
- high ductility
- compressive strength - min. 5.0 N/mm²
- for thick joints 6-40 mm
- joins elements into a stable, durable wall



Properties

ATLAS MASONRY MORTAR is produced as a dry mixture of the highest quality cement binder, quartz fillers and refining additives.

Compressive strength - category M5.

Prepared in the factory - guarantees identical working properties of the mortar and technical parameters of the joints after setting.

Easy and convenient to use - characterised by very good workability, plasticity and high adhesion.

It has an extended standby time of approximately 4 hours.

So called anti-freezing agents may be added to the mortar allowing for works at lower temperatures, i.e. below +5 °C - a new range of temperatures for mortar application, mortar preparation method (in particular adjustment of the amount of water added), work principles and mortar setting conditions should be adopted according to the additive manufacturer's indications; the amount of the anti-freezing agent added depends on the cement content in the mortar - the ratio of cement:fillers in ATLAS MASONRY MORTAR is 1:3. **Note.** The mortar manufacturer is not responsible for the effects and quality of the anti-frost additives used.

Purpose

It is recommended for traditional thick joint masonry - it allows for the correction of dimensional inaccuracies in wall elements.

Allows the construction of overground storeys, basement walls and foundations - in reinforced and non-reinforced elements subject to structural requirements.

It connects the elements into a stable and durable wall - it is a soft and resilient matrix in which rigid elements such as bricks, stones and blocks are embedded.

It protects individual masonry components - bricks, blocks, hollow bricks - from deterioration and provides a buffer to reduce the impact of stresses associated with loading under the influence of successive layers of masonry and thermal and moisture changes in the surroundings.

Type of masonry - bricks, hollow blocks and other such ceramic, lime sand and concrete materials

Technical data

Bulk density (dry mix)	approx. 1.5 kg/dm ³
Aggregate fraction	≤ 2,0 mm
Mixing ratio water / dry mix	0.12÷0.14 l / 1 kg 3.0÷3.5 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. 4 hours
Correction time	≥ 10 min

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 MORTAR (2019) Declaration of performance No. 007/2/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	0.05 kg/m ² min ^{0,5}

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

Masonry

Preparation of masonry units

Bricks, blocks or hollow bricks should be clean, dust-free and dry. During storage, they should be protected from rain and excessive heat.

Weather conditions

Before starting work, consideration must be given to both the weather conditions under which the work is carried out as well as the conditions under which the mortar will set and dry.

Mortar preparation

Pour the material from the bag into a clean container with a measured amount of water (proportions given in the Technical Data) and mix with a mixer (or in a concrete mixer) until a uniform consistency is obtained. The mortar is suitable for use immediately after mixing and should be used within approximately 4 hours.

Masonry

The method of mortar application should be in accordance with the technology of cement mortar masonry works. The mortar should be applied with a trowel evenly on the horizontal plane of the previously made layer. Both horizontal and vertical joints should be precisely filled with mortar (unless the technology of application of a given type of elements provides for a different method of jointing, e.g. tongue and groove). In the walls to be plastered, an unfilled joint (to a depth of 5÷10 mm) should be left at the external faces. The thickness of the joint should be uniform for the whole layer and should be between 6 and 40 mm.

Consumption

Wall thickness (solid brick)	Dry mortar consumption with a joint thickness of approx. 1 cm	From a 25 kg bag
1/2 b	approx. 40 kg/m ²	approx. 0.63 m ²
1 b	approx. 100 kg/ m ²	approx. 0.25 m ²

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. Soluble chromium (VI) content in the finished product ≤ 0,0002 %.

Important additional information

The proportion of water added should be adjusted experimentally, taking into account the desired consistency of the mortar, the type of substrate and weather conditions. The use of an inappropriate amount of water for the preparation of the mix leads to a reduction in the strength parameters of the plaster.

Tools should be cleaned with clean water, directly after use. Difficult to remove remains of already set mortar are washed with ATLAS SZOP

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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