



ATLAS MASONRY MORTAR M-10

traditional masonry mortar

- for ceramic, concrete and silicate elements
- high ductility
- compressive strength - min. 10.0 N/mm²
- combines elements into a stable, durable wall



Properties

ATLAS MASONRY MORTAR M-10 is produced as a dry mixture of the highest quality cement binder, quartz fillers and refining additives.

Compressive strength $\geq 10.0 \text{ N/mm}^2$

Prepared in the factory - guarantees repeatability:

- working properties of the mortar,
- technical parameters of the joints after setting.

Easy and convenient to use - characterised by:

- very good workability,
- plasticity,
- high adhesion.

It has an extended standby time of approximately 4 hours.

So called anti-freezing agents may be added to the mortar which make it possible to carry out works at lower temperatures, i.e. below $+5^\circ\text{C}$. The new temperature range of mortar application, the manner of its preparation (especially the correction of the amount of water added), the principles of carrying out works and the conditions of mortar setting should be adopted in accordance with 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 M-10 is 1:3. **Note.** The mortar manufacturer is not responsible for the effects and quality of the antifreeze additives used.

Purpose

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

Allows the construction of overground storeys, basement walls and foundations - reinforced and unreinforced 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
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 $+5^\circ\text{C}$ to $+30^\circ\text{C}$
Pot life	approx. 4 hours

Technical requirements

The product complies with the requirements of EN 998-2 - masonry mortar manufactured in the factory according to a recipe, general purpose (G), for internal and external use, for masonry walls, columns and partition walls.

ATLAS MASONRY MORTAR M10 (2019) Declaration of performance No. 095/2/CPR EN 998-2:2016	
Intended use: in masonry walls, columns and partitions	
Ingredients ratio (by weight, %)	Cement : fillers 1:3 (in bulk) Additives less than 1%
Chloride content	0.1 % 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 masonry elements

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

Both the weather conditions in which the works are carried out and the conditions in which the setting and drying of the mortar will take place must be taken into account before work begins.

Preparation of the mortar

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 use of the product 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 (of solid bricks)	Dry mortar consumption with a joint thickness of approx. 1 cm	Yield per 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

The product has a Radiation Hygiene Certificate.

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

Storage and transport

Shelf life of the product (shelf life) 12 months from the production date on the packaging.

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.

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 exempt 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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