

**DIVISION 04  
MORTAR  
MIX OF PORTLAND CEMENT AND LIME**

# MASONMIX GREY

## FEATURES & BENEFITS

- › Good water vapour transmission properties
- › Excellent workability
- › Low compressive strength
- › Autogenous healing properties
- › Pre-mixed, which reduces time mixing on site, ensures good proportions and guarantees a homogeneous mortar throughout the project

## USES

- › Ideal for the construction of non-load-bearing walls
- › Can be used indoors or outdoors

## CAUTION

Colour variations on the hardened mortar can be observed even if the mortar in-place has been previously coloured in the factory and complies with the project specifications.

These colour variations are mainly attributed to various implementation conditions such as delay between mixing and tooling of joints, lack of protection against the weather during implementation, or variability in the rate of absorption/humidity. In order to avoid an undesirable result, we recommend that you pay particular attention to these points.

KING MasonMix Grey is a pre-mixed and pre-bagged Type O mortar specially designed to be used when laying masonry units in non-load-bearing wall applications. This product is composed of Portland Cement Type GU, natural Type S air lime, masonry sand with controlled particle size and an air-entraining agent. The MasonMix complies with the property descriptions in Table A3 of the CSA A standard 179-14 (Annex A, Table A3) for a Type O mortar. It is grey in colour, and may be coloured in the factory or on the job-site using the **Colour Plus System** exclusive to KING.

## EXECUTION

- The application of the mortar must comply with the requirements of sections 6 and 7 of CSA-A371-14

## MIXING

### Small Quantity

Important: In order to avoid segregation issues, always mix the total content of one bag. If less than 30 KG (66 lb) is required (i.e. dry-mix, without water), place the total contents of the bag in a clean container, remove the required amount, and then add water to the amount withdrawn from the mixture.

### Large Quantity

Always mix the entire contents of the bag. Mix the MasonMix Grey with a maximum of 5 L (1.3 US gallon) of potable water per 30 KG (66 lb) bag, in a clean mortar mixer. Pour 4.5 L (1.2 US gallon) of water into the mixer and add 30 KG (66 lb) of MasonMix Grey. Mix for 5 minutes or 5 to 10 minutes when using a coloured mortar, or when a colourant is added on-site. Using the remaining water, adjust the mortar to obtain the desired consistency.

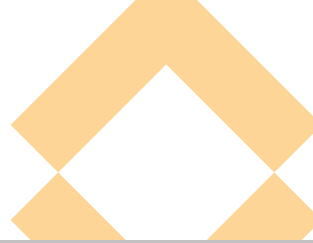
## MORTAR PLACEMENT

### Laying Masonry Units

Avoid working in direct sunlight or exposed to winds. The sun and the wind are elements to take into account in order to avoid cracking problems. Never spread mortar on frozen surfaces.

## TOOLING OF THE JOINTS

The tooling of joints exposed to rain is an important step that contributes to the waterproofing of the masonry system and must be done using a jointer. The amount of water present in the mortar joint at the time of tooling will determine the final colour of the cured mortar. To avoid colour variation, ensure that the mortar joint always contains the same amount of water when it is tooled. As a general rule, the joint is considered ready to be tooled when the mortar has hardened sufficiently such that a fingerprint mark remains.



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**LIMITATIONS**

- » Never add admixtures on-site to modify set time, workability or any other properties of the plastic or hardened mortar
- » Never use MasonMix Grey on frozen elements or mortar

**OPTIMAL PERFORMANCE**

- » Surface and mortar temperature should be between 5°C and 35°C (40°F and 95°F) and kept within this range for 2 days after the end of the work.

**PACKAGING**

This product is packaged in 30 KG (66 lb) triple-lined bags or bulk bags, wrapped on wooden pallets.

**STORAGE AND SHELF LIFE**

Always store in a dry area, protected from the weather. On-site, an additional tarp must be used to cover the product to prevent water infiltration. Unopened, properly stored bags have a shelf life of 12 months.

**SAFETY PROCEDURES**

This product is made of Portland Cement. Wearing safety equipment used for the handling of cement-based products is therefore recommended: rubber gloves, dust mask and safety glasses. Safety Data Sheets can be provided upon request.

**CLEANING**

In order to avoid the use of chemicals it is recommended to always remove as much splash or mortar stains as possible before the mortar hardens. If the use of cleaning products is necessary, be sure to contact the manufacturer of the product to validate the compatibility and the procedure to follow.

If the colour ONYX is used, be sure to mention to the cleaning product manufacturer that the mortar contains Carbon Oxide pigments. Some commonly used cleaning agents are not compatible with Carbon Oxides. Apart from the colour, Onyx, all KING coloured mortars contain iron or titanium oxides.

Regardless of the technique or product selected, it is essential to preserve the integrity of the mortar.

Be sure to clean a test area before proceeding with the work.

**TECHNICAL DATA\***

**BEDDING MORTAR**

**FLOW**

CSA A3004-C1 105 to 115%

**COMPRESSIVE STRENGTH**

CSA A3004-C2

**7 Days** 2 MPa (290 psi)  
**28 Days** 2.5 MPa (363 psi)

**AIR CONTENT**

EN-1015-7 Method A 14% Maximum

**SHRINKAGE**

ASTM C 596 0.160% at 91 days

**WATER RETENTION**

ASTM C 1506 70% Minimum

**YIELD PER 30 KG (66 LB) BAG** 0.018 m<sup>3</sup> (0.65 ft<sup>3</sup>) of fresh mortar

\* All the values expressed are average values and are obtained under laboratory conditions.

**Note:** The contents of this Technical Data Sheet are updated regularly. To ensure that you have the most recent version, please visit our website at the following address: [www.king-masonry.com](http://www.king-masonry.com)

This product is designed to meet the performance specifications outlined in this product Technical Data Sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade.

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