



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

MASONCARE 300 GREY

FEATURES & BENEFITS

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

USES

- » For repointing buildings or monuments (ancient or modern)
- » 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.

MasonCare 300 Grey is a pre-mixed and pre-bagged, Type O repointing mortar. This mortar is composed of 1 part of Portland Cement Type GU, 2 parts of natural Type S air lime, 9 parts of masonry sand, and an air-entraining agent. 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place the total contents of the bag in a clean container, remove the required amount, and then add water to the amount withdrawn from the mixture.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 MasonCare 300 Grey with a maximum of 3.85 L (1.01 US gallon) of potable water per 30 KG (66 lb) bag, in a clean mortar mixer. Mix for 5 minutes, or 5 to 10 minutes when using a coloured mortar or when a colourant is added on-site. Once well mixed, the consistency of the mortar should be firm enough to allow you to shape a ball with your hands. Let the mortar sit for a 30 minute period before applying.

MORTAR PLACEMENT

Surface preparation should include removing any loose particles, dust and debris, as well as removing the old mortar to a depth of twice the thickness of the joint. Moisten the area to be repaired without leaving standing water in the cavities to be filled. Place the mortar in successive layers of 6 mm (¼ inch) thickness maximum. The layers of mortar are applied wet on wet. If work is interrupted, moisten the joint again before resuming work. Tool the joints and start the curing. Avoid working in direct sunlight or exposed to winds. The sun as well as the wind are elements to take into consideration 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. Always tool the joint in order to respect the historical aspect of the original mortar.



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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 MasonCare 300 Grey on frozen elements or mortar
- › Do not use MasonCare 300 Grey to lay masonry units. In this case use the MasonMix manufactured by KING.

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 (48 hours) after the end of the moist cure.
- › Mortars don't fear cold temperatures. Mortars especially fear the repeated cycles of wetting and drying in frost period.

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.

CURING

Curing is essential for optimizing the physical properties of the mortar. The curing is carried out using a moist cure which must begin as soon as the initial set of the mortar is complete and continue for a period of 3 to 7 days. To learn more about the moist cure, refer to the guide: *How to perform a moist cure for masonry*, published by KING and available on the company's website.

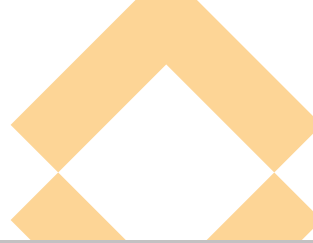
CLEANING

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.



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TECHNICAL DATA*

VICAT CONE

ASTM C 780 15 mm (0.6") ± 5 mm (0.2")

COMPRESSIVE STRENGTH

CSA A3004-C2

7 Days 3.5 MPa (507 psi)

28 Days 4 MPa (580 psi)

AIR CONTENT

EN-1015-7 Method A 14% Maximum

WATER RETENTION

ASTM C 1506 70% Minimum

SHRINKAGE

ASTM C 596 0.109% at 91 days

VAPOUR TRANSMISSION

ASTM E 96 25 Perms

BOND STRENGTH

ASTM C1072 0.75 MPa

YIELD PER 30 KG (66 LB) BAG 0.018 m³ (0.65 ft³) 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

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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