



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

# MASONCARE 300 C SERIES

## FEATURES & BENEFITS

- › Reproduces the aesthetic appearance of old mortars
- › Superior adherence
- › Low compressive strength
- › Excellent water vapour transmission properties
- › Ideal for joints larger than 10 mm
- › Autogenous healing properties
- › Premixed, which reduces time mixing on site, ensures good proportions and 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 rate of absorption/humidity variability. In order to avoid an undesirable result, we recommend that you pay particular attention to these points.

The MasonCare 300 C Series is a pre-mixed and pre-bagged repointing mortar. This mortar is composed of 1 part of white Portland cement, 2 parts of natural type S hydrated lime, 9 parts of sand containing variant particles from 0 to 5 mm (coarser than usual masonry sand), and an air entraining agent. This mortar is specially designed to reproduce the visual appearance of ancient mortars. It is grey or cream in color, and may be colored 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 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 is required, dry mix - without water - the total contents of the bag in a clean container, take the required amount, and then add water to the amount withdrawn from the mixture.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 C Series with a maximum of 4.3 L (1.13 US gallon) of potable water per 30 KG (66 lb) bag in a clean mortar mixer. Pour 4 L (1,05 US gallon) of water into the mixer and add 30 KG (66 lb) of MasonCare 300 C Series. 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. 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

Prepare the surface to be repaired in order to remove loose particles and faulty mortar on a thickness corresponding at least to twice the thickness of the joint to be repaired or up to obtaining a healthy mortar. 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 expose to winds. The sun as well as the wind are elements to take into consideration in order to avoid the cracks 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 the MasonCare 300 C Series on frozen elements or mortar
- › Do not use the MasonCare 300 C series to lay masonry units

## OPTIMAL PERFORMANCE

- › Surface temperature and mortar should be between 5 and 35°C (40 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 tarpaulin 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 the same safety equipment that is usually used for the handling of cement-based products is 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 setting of the mortar and 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.

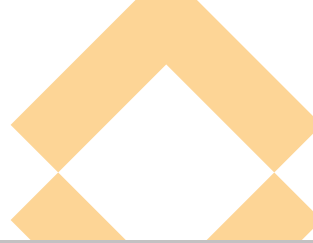
## CLEANING

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. It's important to mention that it is a mortar based on natural hydraulic lime.

If the colour ONYX is used, be sure to mention to the cleaning product manufacturer that the mortar contains Carbon Oxides pigments. Generally used cleaning agents are not compatible with Carbon Oxides. Apart from 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\*

### COMPRESSIVE STRENGTH

CSA A3004-C2

<b>7 Days</b>	3 MPa (435 psi)
<b>28 Days</b>	4.5 MPa (652 psi)

### AIR CONTENT

EN-1015-7 Méthode A	14% Maximum
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### SHRINKAGE

ASTM C 596	0.130% at 91 days
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### VICAT CONE

ASTM C 780	15 mm ± 5 mm
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### WATER RETENTION

ASTM C 1506	70% Minimum
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### VAPOR TRANSMISSION

ASTM E 96	25 Perms
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### TRACTION ADHESION

ASTM C1072	0.75 MPa
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<b>YIELD PER 30 KG (66 LB) BAG</b>	0.018 m <sup>3</sup> (0.65 ft <sup>3</sup> ) of fresh mortar
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\*All the values expressed are average values and are obtained under laboratory conditions. The average values are applicable when the mortar is used as a repointing mortar.

**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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