

PRODUCT DATA SHEET

King® MasonGO 200

Masonry mortar for laying applications



PRODUCT DESCRIPTION

The King® MasonGO 200 is a premixed and factory-bagged Type M mortar specially designed for laying bricks, natural stones, concrete blocks and other masonry products when higher compressive strength is required. King® MasonGO 200 is formulated with cementitious materials, an air-entraining admixture, and masonry sand with controlled grain size.

WHERE TO USE

- Clay brick, natural stone or concrete blocks laying applications
- Can be used for interior and exterior applications

CHARACTERISTICS / ADVANTAGES

- Factory-calibrated mix
- High compressive strength
- Economic
- Good resistance to freeze thaw cycles

PRODUCT INFORMATION

CSC MasterFormat®	04 05 13 - Masonry Mortaring and Grouting Specifications template are available on Sika Canada Website
Packaging	30 kg (66 lb) triple-lined bags or 1500 kg (3307 lb) FIBC and polywrapped on wooden pallets
Shelf Life	12 months in original, unopened bag
Storage Conditions	Always store in a dry area, protected from the weather. At the job site, an additional tarpaulin must be used to cover the product to prevent water infiltration.
Appearance / Colour	Powder / Grey Note: May be factory-coloured or at the job site using the King® Colour-Plus Pigment System exclusive to Sika Canada. All pigments used conform

ENVIRONMENTAL INFORMATION

King® MasonGO 200 contribute towards satisfying the following LEED®v4/v4.1 Credits:

- MR Credit - Building Product Disclosure & Optimization: Environmental Product Declaration
- MR Credit - Building Product Disclosure & Optimization - Material Ingredients: Manufacturer Inventory
- MR Credit - Building Product Disclosure & Optimization - Sourcing of Raw Materials: Raw material source & extraction reporting

[LEED documentation](#) is available on Sika Canada Website

APPROVALS / CERTIFICATES

Compliance with *ASTM C270 - Standard Specification for Mortar for Unit Masonry* (for type M mortars with water added on site - table 2).

to the requirements of *ASTM C979 Pigments for Integrally Colored Concrete*.

TECHNICAL INFORMATION

Compressive Strength	ASTM C109 - Minimum	
	<u>7 days</u> 11 MPa (1595 psi)	<u>28 days</u> 20 MPa (2900 psi)
	Note: The pigments used to colour the mortar have no effect on its mechanical properties.	
Shrinkage	ASTM C596 0.135 % at 91 days	
Water Absorption	ASTM C1506 / Water Retention 70 % Minimum	
Permeability to Water Vapour	ASTM E96 11 Perms	
Porosity	EN-1015-7 Method / Air Content 18 % Maximum	
Freeze thaw resistance	ASTM C666M 150 cycles	

APPLICATION INFORMATION

Yield	Approx. 0.018 m ³ (0.65 ft ³) of fresh mortar per 30 kg (66 lb) bag
Flowability	ASTM C1437 / Flow 110 % +/- 5 %
Product Temperature	Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.
Ambient Air Temperature	Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.
Substrate Temperature	Refer to the "Placement condition" section on the Specifications template document on Sika Canada Website.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

All values required by the ASTM C270 Standard, as well as values of the King® MasonGO 200 product, are obtained under laboratory conditions. The values of the King® MasonGO 200 product are applicable when the product is used as a laying mortar.

LIMITATIONS

- Do not use King® MasonGO 200 when a Type N or a Type S mortar is specified; use King® 1-1-6, King® 2-1-9 or King® Block instead.
- Never add admixtures at the job site to modify set

time, workability, or any other property of the mortar in its plastic or hardened state.

- Always use potable water.
- Use only the recommended water dosage to obtain the desired properties of the mortar in its plastic or hardened state.
Never use on frozen surfaces.
- Colour variations on the hardened mortar can be observed even if the mortar in-place has been previously factory-prepared and complies with the project specifications. These colour variations are mainly attributable to inadequate application conditions such as delay between mixing and tooling of joints, lack of protection against the weather during installation, or variable absorption/moisture rates of the construction elements. In order to avoid an undesirable result, we recommend that you pay particular attention to these points.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

MIXING

Small batch

Important: In order to avoid segregation issues, always mix the total content of one bag. If less than a 30 kg (66 lb) of King® MasonGO 200 is required, dry mix - without water – the total content of the bag in a clean container, take the required amount, and then add water to the amount withdrawn from the mixture.

Large batch

Always mix the entire content of the bag. Mix the King® MasonGO 200 with a maximum of 4.5 L (1.2 US gal) of water per 30 kg (66 lb) bag in a clean mortar mixer. Pour 4.0 L (1.0 US gal) of water into the mixer and add 30 kg (66 lb) of King® MasonGO 200. Mix for three (3) to five (5) minutes, or five (5) to ten (10) minutes when using a coloured mortar or when a colourant is added at the job site. Allow the mortar to stand for a short period of time. Using the remaining water, adjust the mortar to obtain the desired consistency.

Once the desired consistency is achieved, it is not recommended to add water to the coloured mortars in order to compensate for water loss caused by evaporation. Adding water may affect the final colour of the product.

APPLICATION

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

APPLICATION METHOD / TOOLS

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 variations, 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 finger mark remains. Unless otherwise stated, a concave joint is preferred.

CLEANING

In order to avoid the use of chemicals, it is always recommended to remove as much mortar splashes or stains as possible before the material hardens. Uses

water, a piece of burlap or wood. 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 is important to mention to the manufacturer that this is a cementitious mortar containing iron oxide and titanium pigments when coloured.

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.

Clean all tools and equipment after use with water. Once hardened, the product can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.