

PRODUCT DATA SHEET

King® HL-5 Grout

Natural hydraulic lime-based masonry grout

PRODUCT DESCRIPTION

King® HL-5 Grout is a premixed, factory-bagged hydraulic lime injection grout specially designed to be used as a grout in order to fill the voids that have been created over time in historic structures. This grout is formulated without sand and is composed of natural hydraulic lime and other carefully selected components.

WHERE TO USE

- Filling voids in masonry structures
- Can be used for interior and exterior applications

CHARACTERISTICS / ADVANTAGES

- Factory calibrated mix
- Formulated without sand
- Compatible with all historic or modern structures
- Can be pumped or injected by gravity
- Excellent water vapour transmission properties

PRODUCT INFORMATION

CSC MasterFormat®	04 05 13 - Masonry Mortaring and Grouting Specifications template are available on Sika Canada Website
Packaging	20 kg (44 lb) triple-lined bags, 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 / Cream

TECHNICAL INFORMATION

Compressive Strength	ASTM C109 - Minimum		
	7 days	28 days	90 days
	3 MPa	5 MPa	8 MPa
	(435 psi)	(725 psi)	(1160 psi)
Water Absorption	ASTM C1506 / Water Retention 70 % Minimum		
Bleeding	ASTM C940 / Bleeding and segregation		

APPLICATION INFORMATION

Yield	Approx. 0.020 m ³ (0.66 ft ³) of fresh grout per 20 kg (44 lb) bag
Flowability	ASTM C939 / Flow 10 – 30 seconds
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.

LIMITATIONS

- Do not use the King® HL-5 Grout when the temperature at the job site drops below 5 °C (40 °F)
- King® HL-5 Grout cannot be used for laying masonry units; use King® mortars
- Always use potable water
- Never add admixtures at the job site to modify set time, workability, or any other property of the grout in its plastic or hardened state
- Use only the recommended water dosage to obtain the desired properties of the grout in its plastic or hardened state
- Never use the grout if the cells are saturated with water
- Never use grout on frozen surfaces

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

Mechanical mixing of the King® HL-5 Grout using a high-shear colloidal mixer is required. Place 9.5 L (2.50 US gal.) of water into a mixer and slowly introduce the entire bag of King® HL-5 Grout. Always mix the entire content of the bag.

Only if additional water is required to meet the target flow, slowly add additional water while mixer is running, not exceeding the maximum recommended water dosage of 10.7 L (2.83 US gal.) per 20 kg (44 lb)

bag. Continue mixing for three (3) minutes and stop only when the material has reached an homogeneous consistency.

APPLICATION

The application of the King® HL-5 Grout must comply with the requirements of sections 6 and 8 of CSAA371-14

APPLICATION METHOD / TOOLS

GROUT PLACEMENT

If the masonry element to be in contact with the grout has a high rate of absorption, it is preferable to moisten the cavities before the grout is injected. Make sure there is no standing water in the cavities.

FOR INJECTION APPLICATION

Make sure there are no open mortar joints. Install injection tubes in joints every 300 mm (11.8 in) horizontally and 300 mm (11.8 in) vertically. Plug the tubes as the cavities are filled. Agitate the product regularly. Never inject grout on frozen surfaces.

CLEAN UP

In order to avoid the use of chemicals, it is always recommended to clean grout projections on adjacent surfaces such as sidings, neighboring openings, metal flashings, etc. within the hour following the installation by using only clean water and a nylon brush.

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.

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