

# PRODUCT DATA SHEET

## King® RPL-20

Portland cement and lime-based masonry grout

### PRODUCT DESCRIPTION

King® RPL-20 is a premixed, factory-bagged and high compressive strength grout formulated with Portland cement, Type S hydrated lime, masonry sand with controlled grain size and other carefully selected additives. It is specially designed for injection as a replacement or addition to the original mortar and/or grout, in masonry affected by movement, or by any kind of loss.

### WHERE TO USE

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

### CHARACTERISTICS / ADVANTAGES

- Factory calibrated mix
- Economic
- Very high fluidity
- High compressive strength
- Can be pumped or injected by gravity

### PRODUCT INFORMATION

<b>CSC MasterFormat®</b>	04 05 13 - Masonry Mortaring and Grouting <a href="#">Specifications template</a> are available on Sika Canada Website
<b>Packaging</b>	30 kg (66 lb) triple-lined bags, polywrapped on wooden pallets.
<b>Shelf Life</b>	12 months in original, unopened and undamaged bag
<b>Storage Conditions</b>	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.
<b>Appearance / Colour</b>	Powder / Grey
<b>Density</b>	<b>ASTM C185</b> 2000 kg/m <sup>3</sup> (125 lb/ft <sup>3</sup> )

### TECHNICAL INFORMATION

<b>Compressive Strength</b>	<b>ASTM C109 - Minimum</b>	
	7 days 10 MPa (1450 psi)	28 days 20 MPa (2900 psi)

## APPLICATION INFORMATION

<b>Yield</b>	Approx. 0.018 m <sup>3</sup> (0.65 ft <sup>3</sup> ) of fresh grout per 30 kg (66 lb) bag
<b>Flowability</b>	<b>ASTM C939 / Flow</b> 10 – 30 seconds
<b>Product Temperature</b>	Refer to the "Placement condition" section on the <a href="#">Specifications template</a> document on Sika Canada Website.
<b>Ambient Air Temperature</b>	Refer to the "Placement condition" section on the <a href="#">Specifications template</a> document on Sika Canada Website.
<b>Substrate Temperature</b>	Refer to the "Placement condition" section on the <a href="#">Specifications template</a> 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

- King® RPL-20 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® RPL-20 using a drill mixer or a grout paddle mixer is required. Place 7.75 L (2.05 US gal.) of water in a clean mixer or pail and slowly introduce the entire bag of King® RPL-20. Always mix the entire content of the bag. Only if additional water is required to meet the target flow, slowly add additional water while the mixer is running, not exceeding the maximum recommended water dosage of 8.25 L (2.18 US gal.) per 30 kg (66 lb) bag. Continue mixing for three (3) minutes and stop only when material has reached an homogeneous consist-

ency.

### APPLICATION

The application of the grout must comply with the requirements of section 6 and 8 of CSA-A371-14

### APPLICATION METHOD / TOOLS

#### GROUT PLACEMENT

If the masonry element to be in contact with the grout presents a high absorption rate, it is preferable to moisten the cavities before injecting the grout. 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 (12 in) horizontally and 300 mm (12 in) vertically. Plug the tubes as the cavities are filled. Agitate the product regularly. This product contains sand, which should be considered when selecting the diameter of the injection tube.

#### 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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