

DIVISION 04
GROUT
PORTLAND CEMENT AND LIME BASED

KING RPL-20

FEATURES & BENEFITS

- » High compressive strength
- » Can be pumped or injected by gravity
- » Premixed, which reduces mixing times on site, ensures good proportions and a homogeneous grout throughout the project

USES

- » King RPL-20 is a grout specially developed to fill voids in masonry structures
- » Can be used indoors and outdoors

King RPL-20 is a high compressive strength grout, 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. This mixture is made of Portland cement, type S natural air lime, sand and other carefully selected additives.

EXECUTION

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

MIXING

Mechanical mixing using a Drill Mixer or a Grout Paddle Mixer are required when mixing King RPL-20. Place 7.75 L (2.05 US gallon) of water into mixer or pail and slowly introduce entire bag of King RPL-20. Always mix the entire contents 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 content of 8.25 L (2.18 US gallon) per 30 KG (66 lb) bag. Continue mixing for 3 minutes and stop only when material has obtained a consistent homogeneous mix.

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.

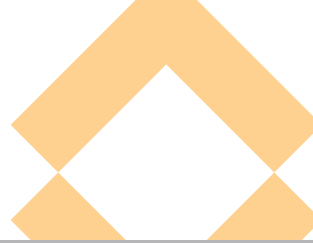
Make sure there is no standing water in the cavities.

FOR INJECTION APPLICATION

Make sure there are no open mortar joints. Install injection tubes in joints every 300 mm horizontally and 300 mm vertically. Start the injection starting from the bottom. Plug the tubes as the cavities are filled. Agitate the product regularly. This product contains sand and that should be taken into consideration when selecting the diameter of the injection tube.

CLEANING

In order to avoid the use of chemicals, it is recommended to always clean splashes that appear on surfaces such as siding, neighbouring openings, metal flashing etc. in the hour following the installation by using only clean water and a nylon brush.



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LIMITATIONS

- » Never add admixtures on-site to modify set time, workability or any other properties of the plastic or hardened grout
- » Never use the King RPL-20 on frozen elements or mortar

OPTIMAL PERFORMANCE

- » Do not use King RPL-20 for placing masonry units. In this case, refer to KING mortars.
- » Surface temperature and grout should be between 5 and 35°C (40 and 95°F) and kept within this range for 3 days (72 hours) after placement.

PACKAGING

This product is packaged in 30 KG (66 lb) triple-lined bags or bulk bags, wrapped on wooden pallets.

All KING products can be packaged to meet the specific requirements of each job.

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.

TECHNICAL DATA*

FLOW

ASTM C-939 10-30 seconds

COMPRESSIVE STRENGTH

ASTM C 109

7 Days 10-14 MPa (1450-2030 psi)
28 Days 15-20 MPa (2175-2900 psi)

BLEEDING AND SEGREGATION

ASTM C 940 2% Maximum

DENSITY

ASTM C 185 2000 kg / m³ (125 lb / ft³)

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

*The following technical data represent the characteristic values obtained under laboratory conditions. The results obtained on site may differ.

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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