

KING LS

KING LS is a pre-blended, pre-packaged grout, with low compressive strength, specifically designed for injection, in order to replace or in addition of existing mortar or grout, into masonry affected by movements or any type of loss. This mix is a blend of cementitious material, masonry sand and other carefully selected components.

FEATURES & BENEFITS

- Low compressive strength.
- Can be poured, pumped or injected.
- Can be used indoors or outdoors.
- Economical.
- Pre-blended, ensuring consistency from the first batch to the last.
- All KING products are manufactured using ISO 9001:2008 Certified Processes.

USES

- KING LS is a grout specifically designed to fill voids in masonry walls. Its low density minimizes the impact of injection into the building envelope.

PROCEDURES

Mixing:

KING LS should be mixed with a maximum of 6.6 litres (1.7 US gallon) of potable water per 30 kg (66 lb.) bag. In a clean container, pour 5.5 litres (1.5 US gallon) of water, then add the contents of the bag while mixing with a drill with a "Jiffler" type mixer (see: www.jifflermixer.com) mixing tip. It is important to mix the entire content of the bag. If necessary, add remaining water until obtaining a mixture with enough fluidity for injection.

Placing:

Make sure that all masonry joints are tight. Install injection tubes horizontally and vertically every 300 mm (12 in). Start injecting from the bottom. Once the grout starts to flow out of the above port, switch to that port and plug the bottom port. The grout should be agitated regularly.

Note: This product contains sand. Injection tubes should be chosen taking this in consideration.

TECHNICAL DATA

The following data is representative of typical values achievable under laboratory conditions. Results in the field may vary.

COMPRESSIVE STRENGTH

ASTM- C109

7 Day	3.5 MPa (510 psi)
28 Day	< 10.0 MPa (1450 psi)

BLEEDING AND SEGREGATION

ASTM C 940	< 2 %
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MINIMUM SLUMP FLOW

100 to 200 mm

OPTIMUM PERFORMANCE

- KING LS should not be used as a bedding mortar for masonry units. For applications requiring bedding of masonry units, please refer to KING masonry mortars.
- The substrate and mortar temperature should be between 5°C and 38°C (40°F and 100°F) and maintained in this range for 72 hours after the grout application.
- Never use on-site admixtures to modify setting time, workability, or any other properties of plastic or hardened grout.
- Only use the recommended amount of water to obtain the plastic or hardened properties of the grout.

YIELD

30 kg (66 lb.) bag contains approximately 0.018 m³ (0.65 ft³) of fresh grout.

PACKAGING

KING LS is normally packaged in 30 kg (66 lb.) triple lined bags or bulk bags, poly wrapped on wooden pallets. All KING products can be custom packaged to suit specific job requirements.

STORAGE AND SHELF LIFE

Material should be stored in a dry, covered area protected from the elements. Unopened bags have a shelf life of 12 months.

SAFETY PROCEDURES

KING LS grout contains cement. Normal safety-wear such as rubber gloves, dust mask and safety glasses used to handle conventional cement based products should be worn. Material Safety Data Sheets are available upon request.

Note: The contents of this 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 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.

KING LS

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