

RPL-6

The RPL-6 is a pre-blended, pre-packaged low compressive strength grout, specifically designed for injection into masonry structures affected by movement or any type of section loss. RPL-6 grout can be used in replacement or in addition to an existing mortar or grout used in a masonry structure. The RPL-6 is composed of Portland cement, hydrated type S lime, sand and other carefully selected components.

FEATURES & BENEFITS

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

USES

The RPL-6 is specifically designed to fill voids in masonry walls and foundations. The low plastic density of the RPL-6 minimizes the impact of injection on the building envelope. The high fluidity coupled with the small maximum particle size allows RPL-6 to easily infiltrate into small openings

PROCEDURES

Mixing:

The RPL-6 should be mixed with a maximum of 8.5 liters (2.25 US gallons) of potable water per 30 kg (66 lb.) bag. In a clean container, pour 7.5 liters (2.00 US gallons) of water then add the contents of the bag while mixing with a drill equipped with a "Jiffler" type mixing tip (see:www.jifflermixer.com). It is important to mix the entire contents of the bag. If necessary, add the remaining water until the mixture is fluid enough for injection.

Placing:

Make sure that all masonry joints are tight. Install injection tubes horizontally and vertically every 300 mm (1 ft). 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: The RPL-6 contains sand. The injection tube diameter must be considered prior to pumping.

TECHNICAL DATA

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

COMPRESSIVE STRENGTHS (MINIMUM)	
ASTM- C109	
7 Day	3.5 MPa (425 psi)
28 Day	5.0 MPa (725 psi)
BLEEDING & SEGREGATION	
ASTM C-940	2%
FLOW	
ASTM C-939	10-30 seconds

YIELD

0.019m³ (0.67 ft³)

OPTIMUM PERFORMANCE

- The RPL-6 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 the grout 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 bag contains approximately 0.019 m³ (0.67 ft³) of grout.

PACKAGING

The RPL-6 is normally packaged in 30 kg triple lined bags or non-returnable bulk bags, and 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

This product contains cement. Normal safety-wear such as rubber gloves, dust mask and safety glasses used to handle conventional cement based products should be worn. 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.

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