



## Roka GP Grout

### General Purpose Non-Shrink Cementitious Grout

Roka GP Grout is a single component, cementitious, non-shrink grouting compound. It contains siliceous aggregates & chemical reagents which prevent shrinkage during the curing process.

### Uses & Advantages:

- Easy to mix and use.
- Shrinkage-compensated
- Flowable consistency.
- Compatible with the properties of typical concrete.
- Non-corrosive.
- Chloride and iron free.

### Areas of Application:

- Grouting works for machine foundations.
- Filling of cavities, gaps, concrete anchors and recesses.
- Columns in precast construction.
- General concrete repairs.
- Base plates.



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## Technical Data

Color	Grey
Chemical Base	Mixture of cement, graded fine aggregates & additives
Physiological Effect	Same as cement
Density (Mixed Material)	2.2 Kg/lr at 25°C
Pot Life	~4-5 hours after mixing at 25°C
Yield	13 lr/25 Kg bag
Thickness	Minimum: 10mm per pour Maximum: 75mm per pour
Expansion	+ 0.08% at 28 days (CRD C621)
Coefficient of thermal expansion	11 x 10 <sup>-6</sup> m/m per °C
Modulus of Elasticity (Static)	~ 35000 N/mm <sup>2</sup>
Compressive Strength at 25°C (W/P = 0.15) (ASTM C 109)	1 day ~ 30 N/mm <sup>2</sup> 3 days ~ 45 N/mm <sup>2</sup> 28 days ~ 65 N/mm <sup>2</sup>
Initial Surface Absorption (BS1881 Part 208)	10 min = 0.01 ml / (m <sup>2</sup> .sec) 30 min < 0.01 ml / (m <sup>2</sup> .sec)
Bond Strength (Pull Off) at 25°C (BS 4551)	28 days > 1.2



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Flexural Strength at 25°C (28 days) (BS 4551)	~ 14 N/mm <sup>2</sup>
Shelf Life	12 months minimum from production date if stored properly in original unopened packaging
Storage Conditions	Store in a dry area between 5°C to 35°C away from direct sunlight

### Surface Preparation:

The substrate should be prepared by suitable mechanical preparation techniques such as high-pressure water, breakers, grit blasting, etc. Absorbent substrates should be fully saturated, but free of any surface water or puddles prior to the application. Metal surfaces should be free from scale, rust, oil & grease etc.

### Mixing Ratio:

Consistency	Liters of Water per 25 Kg Bag	Water/Powder Ratio
Dry Pack/Trowel able	3.0	0.12
Plastic Consistency	3.25 - 3.75	0.13 – 0.15
Flow able (Maximum Strength)	3.75 – 4.0	0.15 – 0.16
Highly Flow able (maximum flow)	4.0 – 4.25	0.16 – 0.17



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## Mixing:

Add clean cold water into a suitable container according to the desired consistency following the guidelines provided in the table above. Add Roka Grout powder slowly and mix mechanically using a slow speed mechanical mixer (maximum 500 R.P.M) for at least 3 minutes until a smooth homogenous consistency is achieved.

## Application:

Dampen the surface thoroughly with clean water prior to the application. After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. Pour into the prepared area such that the grout has the shortest distance to travel. Ensure that air displaced by grout is allowed to escape. When carrying out base plate grouting, ensure sufficient pressure head is maintained for uninterrupted mortar flow. For formwork repair, the prepared formwork must be firmly in place and kept watertight.

When placing grout over a large area, it is important to maintain a continuous flow throughout. The work sequence must be properly organized to ensure an uninterrupted flow.

## Curing:

When formwork type repair is used, leave the formwork in place for at least 3 days. Upon removal of the formwork, cure the exposed surface with Roka Cure WB 30, a Curing Compound or use other approved curing methods such as polyethylene sheeting or wet hessian.



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## Cleaning:

Clean equipment and mixer after application with water. Hardened material can only be removed mechanically.

## Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

All products are sold under our standard conditions of sale, which are available upon request. Any field services offered do not imply supervisory responsibility. For further information, please contact your local representative of Roka Chem Solutions.



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