



## ROKA GROUT 2K

### Non-Shrink Cementitious, Free Flowing Precision Grout with High Early Strength

Roka Grout 2K is a single component, non-shrink cementitious free flowing grouting compound with high early and ultimate strength. It contains siliceous aggregates & chemical reagents which prevent shrinkage during curing process. This product is suitable for use in tropical and hot climatic conditions.

#### Uses and Advantages:

- Easy to mix.
- Adjustable consistency.
- Very good flow characteristics.
- Non-shrink.
- High early and ultimate strength.
- Remains cohesive & does not segregate.
- Compatible with the properties of typical concrete.
- Dual expansion system.
- Non-corrosive.
- Non-flammable.



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## Areas of Application:

Roka Grout 2K is used for grouting various applications such as:

- Machine foundations.
- Concrete anchors.
- Columns in precast construction.
- Base plates.
- Structural concrete repairs.
- Cavities, gaps and recesses.
- Bridge bearing.

## Technical Data:

Appearance	Grey Powder
Chemical Base	Portland Cement, selected fillers and aggregates, special fillers
Physiological Effect	As Cement
Density at +25°C	2.2 kg/l (mixed Material)
Density (Powder)	2.93 kg/l
Yield	~12 L / 25 kg bag
Layer Thickness	Min: 10 mm per pour Max: 75 mm per pour



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Workability at 25°C	~30 – 45 minutes hours after mixing.
Setting Time at 25°C (Flow-able)	Initial Set: 2 hours Final Set: 3 hours
Compressive Strength at 25 °C	<b>At 3 liters per 25 Kg bag (12% Water)</b> 1 Day: > 40 N/mm <sup>2</sup> 3 Day: > 40 N/mm <sup>2</sup> 28 Days: > 65 N/mm <sup>2</sup> <b>At 3.125 liters per 25 Kg bag (12.5% Water)</b> 1 Day: > 38 N/mm <sup>2</sup> 3 Day: > 43 N/mm <sup>2</sup> 28 Days: > 60 N/mm <sup>2</sup>
Flexural Strength at 25°C (BS 4551)	28 days ~ 14 N/mm <sup>2</sup>
Bond Strength (pull Off) at 25°C	28 days > 1.2
Expansion (CRD C621)	+ 0.08% at 28 days
Coefficient of thermal expansion	11 x 10 <sup>-6</sup> m/m per °C
Modulus of Elasticity (Static)	35000 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)
Shelf Life	12 months minimum from date of production if kept in recommended storage conditions



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Packaging	20 & 25 kg bag
Storage Conditions	Store in original unopened packaging in a cool and dry condition between 5°C and 35°C. Protect from direct sunlight, heat and condensation

## Surface Preparation

Concrete surfaces should be clean, rough, sound and free from oil, grease, cement laitance and all loosely adhering particles. Absorbent surfaces should be saturated thoroughly with clean water. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

## Mixing Ratio:

Consistency	Liters Water per 20	Liters Water per	Water/Powder Ratio
	kg Bag	25 kg Bag	
<b>Dry Pack/Trowel able</b>	2.4	3.0	0.12
<b>Plastic Consistency</b>	2.6 – 3.0	3.25 - 3.75	0.13 – 0.15
<b>Flow able (Maximum Strength)</b>	3.0 – 3.2	3.75 – 4.0	0.15 – 0.16
<b>Highly Flow able (maximum flow)</b>	3.2 – 3.40	4.0 – 4.25	0.16 – 0.17



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## Mixing:

Add water into a clean mixing container depending on the desired consistency. For plastic consistency add 3.25 – 3.75 liters of fresh clean water per 25 Kg bag and for a flowable consistency add 3.75 – 4.0 liters of water per 25 Kg bag. Slowly add Roka Grout 2K in the container and mix mechanically using a slow speed mechanical mixer (maximum 500 R.P.M) for at least 3 minutes. Scrap sides & corners of the mixing container to ensure all the powder is thoroughly mixed and no lumps occur in the mix. It is important to ensure not to over mix. Let the mixed grout stand for approximately 5 minutes to allow the entrapped air to escape.

## Important Remarks:

- Do not add extra water or other ingredients.
- Mix only full bags for the best results.
- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing.
- At high temperatures, use chilled water for mixing to keep the grout temperatures below 30 °C.
- In hot weather, base plates and foundations must be shaded from direct sunlight.
- Use of aluminium tools & equipment is strongly not recommended.



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## Application:

Dampen the surface thoroughly with clean water prior to the application. Pour into the prepared area such that the grout has the shortest distance to travel. Ensure that air displaced by the grout is allowed to escape. When carrying out the base plate grouting, ensure a sufficient head of pressure to keep the mortar flowing. All exposed areas of the mortar surface should be kept as small as possible.

## Curing:

Treat the exposed surface using Roka Cure WB or other approved curing methods such as polyethylene sheeting or wet hessian. Do not commence fogging until the final set has been reached

## Equipment Cleaning:

Clean equipment and mixer immediately 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



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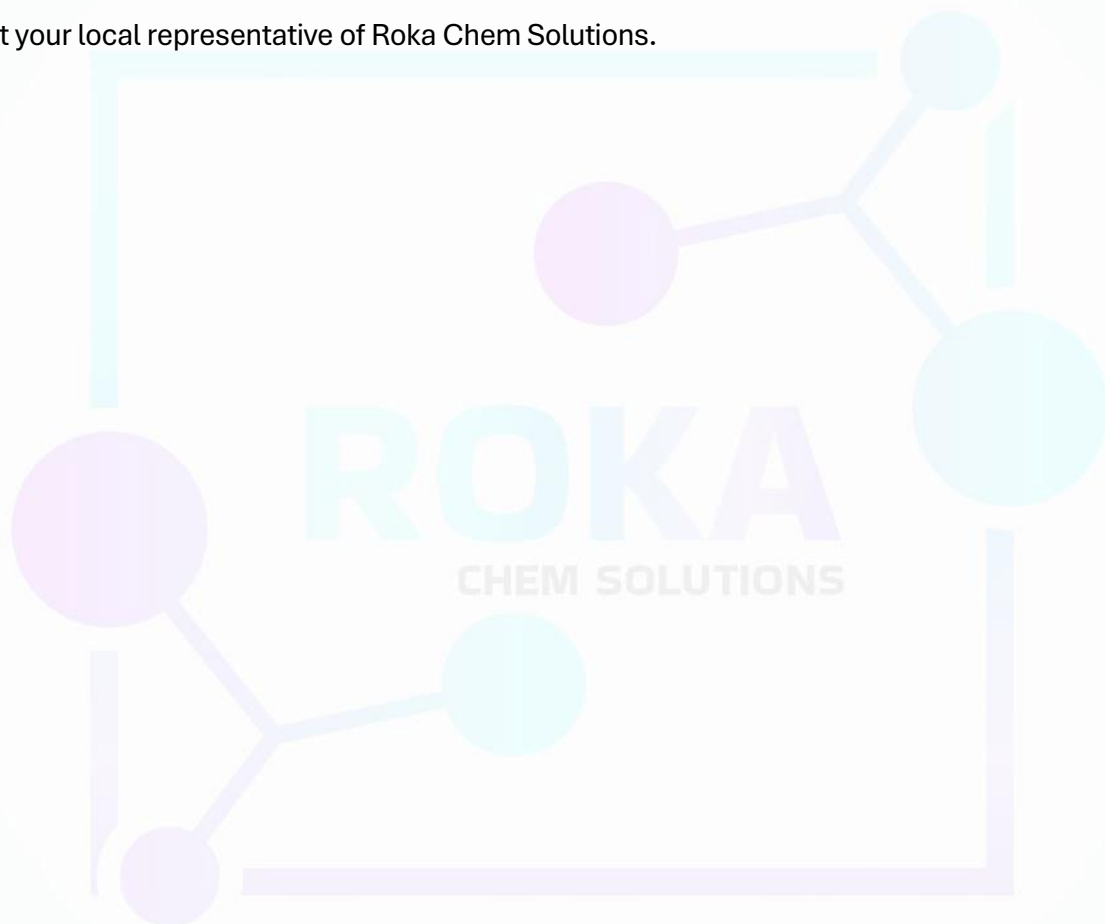


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development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

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