

# RENAFIX General Purpose Grout

## High Strength, Cementitious non-shrink precision grout

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<b>Overview</b>	A factory blended non-shrink cementitious precision grout with excellent early strength used for precision grouting engineering works subjected to static and dynamic loads
<b>Key Features</b>	<ul style="list-style-type: none"> <li>◆ Precision Grouting</li> <li>◆ High Strength &amp; Non shrink</li> <li>◆ Free flowing Consistency</li> <li>◆ Requires no special mixing equipment</li> <li>◆ Economical and highly versatile</li> <li>◆ No metallic iron content and Durable</li> <li>◆ Formulated with locally sourced materials</li> <li>◆ Contribute to LEED points</li> </ul>
<b>Standards</b>	◆ RENAFIX GP grout confirms to ASTM C1107:2011 Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>◆ Prefabricated concrete panels and beams</li> <li>◆ Stanchion base plates, Equipment base plates and columns</li> <li>◆ Bridge Bearings</li> <li>◆ Precast wall panels, beams and columns</li> <li>◆ Anchoring dowels, bolts and other fittings</li> <li>◆ Underpinning and Void filling</li> </ul>
<b>Installation</b>	<p><b>Precautionary Note for the installers</b></p> <ul style="list-style-type: none"> <li>◆ Use general PPEs and follow good concrete practising. Always use clean potable water.</li> <li>◆ Avoid leaving unconfined areas while grouting.</li> </ul> <p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>◆ Ensure the substrate is clean and free from contaminations and debris.</li> <li>◆ Use blower for complete removal of loosely bounded particles.</li> <li>◆ The Surfaces may be etched mechanically to enhance the bonding particles. Ensure the cleaning after etching.</li> <li>◆ Wet the surface with clean water and remove the surplus water over the substrate before application.</li> </ul> <p><b>Mixing</b></p> <ul style="list-style-type: none"> <li>◆ Add sufficient quantity of water required to produce a flowable grout.</li> <li>◆ Approximately 4 to 4.5 L would be added for a 25 kg bag.</li> <li>◆ Do conduct a trial at the site with a small quantity of material in order to understand the site temperature conditions and water demand.</li> <li>◆ For better results, use a mechanical had mixer at slow speed</li> </ul> <p><b>Application</b></p> <ul style="list-style-type: none"> <li>◆ Pour the grout on the application area. It should be on a single side of any voids at a given time in order to avoid air entrapment and or the pre-soaked water being trapped under the base plate.</li> <li>◆ Use grout head to maintain continuous flow of the material.</li> </ul>

## Technical Information

- ◆ Apply more Renafix GP grout to areas that are more porous and appear to readily absorb the material.
- ◆ Redistribute excess material with a soft broom or a fiber pad and allow it to dry uniformly.
- ◆ Avoid cleaning/ levelling after the material starts drying.
- ◆ After curing, remove the powder residue if available

### Cleaning

Clean tools and equipment with water before Renafix GP grout gets hardened, otherwise mechanical cleaning will be required.

Technical Data (typical values)		
<b>General</b>		
Physical Appearance	Grey Powder	
Dry Solid Content	100	
<b>Application</b>		
Mixing ratio	100 Parts of Renafix tile grout with 20 parts of water (by weight)	
Fresh wet density of the mix (kg/m <sup>3</sup> )	2200	
Time for Expansion	Start: 20 minutes; Finish: 2 hours	
Shrinkage	No Shrinkage after initial setting	
Pot life	15 to 20 minutes	
Application depth	10 to 100 mm	
Initial setting time	Approx. 30 minutes	
<b>Performance (Renafix GP Grout mixed with water)</b>		
Parameters	Age (in days)	Typical Values
Compressive Strength (Flowable): ASTM C109	1	24.1 N/mm <sup>2</sup>
	3	45.2 N/mm <sup>2</sup>
	7	56.0 N/mm <sup>2</sup>
	28	67.7 N/mm <sup>2</sup>
Flexural Strength (Flowable): ASTM C348	7	4.2 N/mm <sup>2</sup>
	28	10.3 N/mm <sup>2</sup>
Tensile Strength (Flowable): ASTM C348	28	3.6 N/mm <sup>2</sup>
Young's Modulus (ASTM 469 -02)	NA	28 kN/mm <sup>2</sup>
Modulus of Elasticity in Compression	NA	~32 GPa
Dynamic load test	NA	Specimens of Renafix GP Grout remains unchanged and there are no change in compressive strength after subjected to alternate stress fluctuation of 5 and 25 N/mm <sup>2</sup> at 500 cycles per minute for 2 million cycles.
Expansion	NA	Up to 4 %

### Packaging & Shelf Life

Renafix GP grout is available as 25 kg packs.

Colour: Grey

Has a shelf life of 6 months from the date of Manufacturing when stored in a dry, elevated area in the original unopened packaging

### Warning!

Keep out of reach of Children.

Product for Professional Use

Wear Suitable protective clothing, gloves while handling

For Clarifications and Usage related queries, Contact our Technical Services

## Technical Information

### Additional Information

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# Renacon



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The applicable version of the Technical Data Sheet for this product can be downloaded from our websites. Previous versions of the Technical Data Sheets are rendered void with the issue of a new one. Date of issue: 06.04.2023/V1