

TECHNICAL DATA SHEET

GP GROUT-PLUS

High strength shrinkage compensated grout

DESCRIPTION

GP Grout-Plus (RB1.04) is a cementitious General Purpose Grout that contains a unique blend of cement powder, admixtures, silica sand, microsilica, and other materials to achieve high early age and long term strengths. The grout powder when mixed with water produces a fluid non-shrink grout that is widely recognised as one of the strongest and most stable grouts available on the market. GP Grout-Plus (RB1.04) is used for many types of structural grouting applications and is readily available throughout New Zealand & the Pacific Islands.





SPECIAL PROPERTIES

- Marine-Grade Concrete - Class C
- High early age and long term compressive strengths.
- Quickly and easily mixed and applied.
- Versatile material: can be mixed with water to a stiff, flowing or fluid grout, depending on application and mixed very dry and used in dry-pack applications.
- Produces a positive expansion of the grout in its plastic state reducing plastic settlement and cracking.
- Highly stable, low bleeding.
- Contains 8% pozzolanic material (by weight).
- Contains no chlorides, ferrous metals or other deleterious substances.
- Economical, user friendly, non-toxic and safe to use.
- High density, low permeability.

USES

- Ideal for restricted grouting applications and drossbach ducts.
- Grouting in anchor bolts, bars and rods.
- Between construction joints, precast concrete panels, beams and closely space steel reinforcing.
- Grouting up retaining walls, and behind shafts and tunnel linings.
- Under base plates/gaps with clearances of 5mm-80mm.
- Green Star projects where reduced OPC content required.
- Dry pack applications.

MIXING INSTRUCTIONS

GP Grout-Plus (RB 1.04) is mixed with water using a suitable container, electrical power tool and a ribbon mixer.

Pour the contents of the entire or part of the bag (whatever is required) into the container.
Add between 3.5 - 4 Litres (per 25kg) of water to the container, depending on the consistency required, and mix until you have a smooth even consistency.
Mix for about 1-2 minutes and the grout is now ready for use.

Before the application of grout, it may be necessary to pre-wet the concrete substrate and remove any standing water. Place the grout immediately after mixing. When grouting into vertical faces, grout injection points should be located at the base of the structure where possible, and outlet points situated at the very top. Vent pipes should be situated at appropriate points.

For grout pumping applications, a water content of 15-16% is ideal.

Injection tubes should be installed and fixed fast into the concrete or brick using Rockbond Fastrock Accelerated Mortar (RB3.04). Where grout leaks out of the concrete or brickwork during the application of the grout, use Rockbond Fastrock Accelerated Mortar (RB 3.04) to immediately plug, stop and seal the flow.

During the filling of large structures, or when ground grouting, a large grout demand will suggest the grout is running away and escaping. Should this be the case, stop injecting and re-apply the material when the grout has set sufficiently hard.

For applications where clearances are less than 5mm or for very long narrow pours use Rockbond Super Flow Grout (RB 1.08) For applications that require a build-up that is in excess of 80mm, use Rockbond Repair Concrete (RB 1.06). In situations where a fluid, quick strength grout is required or when the ambient temperatures are low, use Rockbond Fastrock Accelerated Grout (RB 3.07)

This product may be affected by extreme cold temperatures below 8degC and extreme heat temperatures above 30degC. Please contact the Rockbond Technical Team if you have any queries.

HEALTH AND SAFETY

GP Grout-Plus (RB 1.04) is non-toxic and safe to use. However, use the same precaution as with any cementitious products, wear protective clothing, goggles and a dust mask while mixing an applying the material.

TECHNICAL DATA

Water/ Powder Ratio		14%	16%	18%
Consistency		Thick	Pourable	Fluid
Consistency Life		20 Min	25 Min	30 Min
Minimum Compressive Strength	Days	MPa	MPa	MPa
	1	35	25	15
	7	75	70	60
	28	90	80	75
Yield per 25kg		12.5 Litres	13 Litres	13.5 Litres
Amount of powder required to produce 1m ³		2 tonnes (80 x 25kg)	1925kg (77 x 25kg)	1.850 tonnes (74 x 25kg)
Temperature Range		Refer to notes under Mixing Instructions		

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our Technical Sales Team: +64 4 568 5401