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Product Name: GP Grout



Product :

GP Grout is a multipurpose non shrink Class A cementitious grout complying with requirements of SAA MP20 part 3.

Product Description:

GP Grout is a multipurpose non shrink Class A cementitious grout complying with requirements of SAA MP20 part 3. GP Grout is based on Portland cement, graded aggregate and chemical additives which impart controlled expansion, whilst in the plastic state. The gaseous expansion system
compensates for shrinkage and settlement in the plastic state.
Surelevel GP Grout is supplied as a ready to use dry powder, requiring only the addition of a controlled amount of clean water to produce a free flowing non shrink grout, for gap thickness from 10mm to 100mm in a single
application

Recommended Applications:

- Caulking of joints and pipes.
- Precast and pre-stressed GPs.
- Grouting in column bases, base infilling.
- All general purpose grouting.
- Filling core holes, rod holes and defects in concrete.
- Fill in grout for hollow block walls.
- Joints between precast panels and other joints.
- Tilt slab panels.

Features & Benefits:

- Gaseous expansion system compensates for shrinkage and settlement whilst in the plastic state.
- Economical, low in place cost.
- Can be dry packed, rammed, trowelled, poured and pumped.
- Excellent flow characteristics when used in fluid consistency, fills intricate cavities.
- Ready to use, pre mixed and requires only the addition of water.
- No metallic iron content to cause staining.

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- Complete void filling resulting from gaseous expansion in a plastic state.
- Lower water/cement ratio reduces drying shrinkage and increases durability and reduces permeability.

Performance Properties

Mixing Consistency

The table is a guide to the typical water addition requirements for various consistencies.
Litres of water per 20kg bag:

	Dry Pack (Litre)	Trowellable (Litres)	Flowable
Water Table	2.8-3.0	3.0-3.5	3.8-4.2

Typical Compressive Strength

Tested in accordance with AS1012.9 at 20°C and AS2073

Age	Dry Pack	Trowellable	Flowable
1 day	>25 Mpa	>20 Mpa	>15 Mpa
7 days	>65 Mpa	>55 Mpa	>45Mpa
28 days	>85 Mpa	>70 Mpa	>60 Mpa

Typical Flexural Strength

Tested in accordance to ASTM C348 at 20°C

Age	Trowellable	Flowable
28 days	>7.0 Mpa	>6.0 Mpa

FLOW CHARACTERISTICS

Tested in accordance to AS2073

Flow (Flowable)	20 - 35 Seconds

Yields

The approximate yields are obtained if mixed in accordance with recommended procedures and accurately measured water content.

Age	Dry Pack	Flowable	Fluid
Litres / 20kg bag	10.0	10.5	10.8
Approx. Fresh Wet Density kg/m3	2220	2150	2120
Approx Bags required per cubic metre	100	95	93

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Approximate Setting Times

The approximate yields are obtained if mixed in accordance with recommended procedures and accurately measured water content.

Age	Dry Pack	Trowellable	Flowable
Initial Set	3.0 Hours	4.5 Hours	5.5 Hours
Final Set	4.0 Hours	6.5 Hours	8.0 Hours
Time for Expansion- Start (Plastic State)	-	15 - 25 Minutes	15 - 30 Minutes
Time for Expansion- Finish (Plastic State)	-	1 - 2 Hours	1 - 3 Hours
Unrestrained Expansion	-	1 - 2%	1 - 3%
Bleeding	0%	0%	Maximum 2%

Density tested to AS1012.5

Packaging: GP Grout is supplied in a 20kg polylined bag.

Applications Instructions:

Substrate & Surface Preparation: The substrate surface must be clean, sound and free from oil, grease, curing compound or any loose materials. It must be mechanically abraded back to a sound concrete. Bolts or anchor holes must be clean and free from dust or loose material. This can be achieved by blowing clean the hole.

Pre-Soaking: It is essential to pre-soak the concrete substrate prior to application of GP Grout. Pre-soak the substrates, for a minimum of 1 hour prior to grouting. Immediately before grouting, the excess water should be removed, all water in the anchor and bolt holes must be blown out and no traces of free water should be present whilst grouting.

Base Plate: All traces of rust, oil or grease must be removed. It is essential to provide air pressure relief holes for venting

Formwork: It is essential that the formwork be constructed to facilitate rapid, continuous and complete filling at area to be grouted. It is essential that the formwork be constructed to be leak proof and water tight. Foam rubber strips or suitable sealants underneath the formwork are recommended. Formwork should allow gravity flow of grout between the base plate and foundation, ensuring grout is kept in full contact with the base plate and concrete substrate.

Low Temperature Working: Normal precautions for winter working with cementitious materials should then be adopted. At temperatures below 5°C, the cure rate and strength development rate will be dramatically reduced. If early strength is required, it is advisable to use heated water and condition GP Grout up to 30°C. Do not exceed these temperatures.

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Unrestrained Surfaces: As GP Grout is an expanding grout, unrestrained areas must be kept to a minimum. It is advisable not to have any unrestrained areas.

High Temperature Working: At temperatures above 30°C, it is advisable to use water below 20°C when mixing grout. All materials must be kept cool and away from direct sunlight, and area to be shaded by erecting shade screens. If ambient temperatures are excessive, perform grouting in early morning or late evenings.

Mixing: GP Grout is supplied in a ready to use form, requiring only the addition of fresh clean water. For optimum results, GP Grout must be mixed with a mechanical forced action mixer, with a high shear stirrer. It is essential that the grouting operation is continuous, hence ensuring sufficient labour and mixing capacity is available.

DO NOT MIX BY HAND!

The selected water content should be accurately measured into a mixing vessel. Slowly, add the dry powder (GP Grout) while mixing. The mixing should continue for a maximum of 5 minutes, until a uniform homogeneous consistency is obtained.

DO NOT ADD ADDITIONAL WATER!! & Discard any material that has hardened or stiffened.

Placing: It is essential that, at ambient temperatures (approximately 20°C), the grout is placed within 25 minutes of mixing, and this will ensure the expansion process will be maximised. Flowable GP Grout can be placed in thickness ranging from 10mm to 100mm, in one single application. Where thickness is greater than 100mm, special procedures may be necessary. (Consult the Surelevel office for advice). Avoid trapping air and water, by placing grout from one side only. It is recommended that a suitable head box be used to ensure continuous flow of grout. Ensure entire area to be grouted is filled, by bringing level to above underside of machine base plate and remain at this level throughout grout placement. The grout head must be maintained at all times so that a continuous grout front is achieved. Do not use mechanical vibrators to assist in flow, as this will cause segregation of aggregate. For large areas it is recommended that GP Grout be pumped. Contact the Surelevel office for further information.

Curing: On completion of grouting, the exposed area should be covered with wet hessian, plastic sheeting or Surelevel 644 Primer to prevent excessive moisture loss. Keep grout covered for a minimum of 24 hours. Remove formwork, no sooner than 24 hours after completion of grouting and continue to cure with wet hessian, plastic sheeting, water or Surelevel 644 Primer, which can be used as a curing agent. Lack of sufficient curing could result in plastic cracking and drying shrinkage on surface. The surface should be protected for at least 7 days with either a curing compound (Surelevel 644 Primer) or wet hessian or plastic sheeting.

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Storage: GP Grout has a shelf life of approximately 8 months, if kept in a dry environment completely away from moisture.

Clean-up: GP Grout should be removed from tools and equipment with clean water immediately after use.

Health & Safety:

This product is classified as hazardous according to criteria of Work Safe Australia. Material containing Portland Cement and sand now fall into this category. Continuous or extended contact with this product may cause irritation as well as respiratory issues such as bronchitis or silicosis.

- During use avoid inhalation of dust, contact with skin and eyes.
- Suitable protective clothing, dust masks, gloves and eye protection should be worn.
- Continual or extended contact with cement products can cause skin irritation.
- If skin irritation occurs, remove contaminated clothing and flush skin thoroughly with water for a minimum of 15 minutes. Contact Poisons Information Centre or consult medical adviser.
- Material Safety Data Sheets (MSDS) are available on request from the office. Read the MSDS and product data sheet carefully before using any product.

Fire: GP Grout is non-flammable

DISCLAIMER Please Note: Recommendation and advice regarding the use of this product is to be taken as a guide only and Surelevel shall not be liable for any inaccuracy in the information or for any loss, injury or damage whatsoever resulting from its use. To the full extent permitted by law, Surelevel liability is limited at its discretion, to the replacement of the goods or the supply of equivalent goods.

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