



# MEGA GROUT GP

General Purpose, Non-shrink Cement Based Grout

## Product Description

MegaGrout GP is a general purpose grouting is used where it is essential to eliminate shrinkage when completely filling the void between a base plate and a substrate.

MegaGrout GP cementitious grout is supplied as a ready to use dry powder. The addition of controlled amount of clean water produces a flowing non-shrink grout for gap thickness up to 100 mm.

MegaGrout GP was designed to provide extended working hours for use in local conditions. MegaGrout GP complies to ASTM C1107, Type A.

## Uses & Advantages

- Gaseous expansion system compensates for shrinkage and settlement in the plastic state.
- No metallic iron content to cause staining
- Prepackaged material overcomes potential on-site batching variations.
- Add water, power mix and use.
- Good early and ultimate strength.
- Low permeability.
- Superior flowability.
- Use for concrete repair work.
- Chloride free.

## Properties

Appearance	: Grey powder
Bulk Density	: 1.40 - 1.50 kg/litre
Minimum gap width	: 5 mm.
Yield	: Approx. 74-76 x 25 kg bag per m <sup>3</sup> of grout
Water by weight of Grout	: 15.5-16.0%
Bond Strength to Concrete	: >2.5 N/mm <sup>2</sup> at 28 days ASTM D4541 (Concrete failure)
Drying Shrinkage	: < 500 micro strain 23°C C/RH 50% at 28 days ASTM C490
Resistivity	: <12,000 ohm cm at 28 days

\* Properties are typical under laboratory conditions and do not constitute a specification. Field trials are recommended.

## Surface Preparation

The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Metal surfaces should also be clean and free of rust, oil, grease and contaminants.

## Form Work

The formwork should be constructed to be leak-proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints.

## Pre-soaking

The prepared areas should be flooded with water for minimum of 3 hours prior to the placement of MegaGrout GP. Immediately before the grouting is placed any free water should be removed. Particularly care should be taken to blow out all bolts and holes and pockets.

## Mixing

For best results, MegaGrout GP should be mixed using a suitable power mixer. For flowable consistency use a hand drill and paddle with a speed of <400 R.P.M. For large works use a high shear vane grout mixer. Drum mixers are not recommended.

The entire contents of the bag should be added to the pre-measured (3.87-4.00 litres) water while mixing.

DO NOT add more than the maximum water content.

## Application

To gain full benefit of the expansion process and flow, place the grout as soon as the mixing process is complete.

Ensure the substrate is prepared according to the manufactures recommendations. No free water should be present in the area to be grouted. Ensure that there is sufficient air release holes for entrained air to escape. Mortar should be continuously poured, from one side only, until the gap is completely filled. Maintain continuous head of grout when pouring.



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#### Curing

On completion of the grouting operation, exposed areas should be thoroughly cured, using suitable curing agent. If using wet Hessian or plastic sheeting then leave for at least seven (7) days- especially if exposed to sunlight.

#### Packaging

1kg, 5kg and 25kg Plastic lined bags.

#### Yield

Trowellable: 12 Liters per 25 Kg bag  
Flowable: 13.25 liters per 25 Kg bag

#### Storage Conditions & Shelf Life

Store in dry shaded conditions. The shelf life is at least 12 months if kept dry in original packaging. High temperatures and humidity may reduce shelf life.

#### Health & Safety

MegaGrout GP is alkaline, avoid contact with skin & eyes. Gloves, goggles and dust mask should be worn. Skin should be washed with water to remove & splashes in the eyes washed out with copious amounts of clean water and medical attention sought. MegaGrout GP is nonflammable.

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