

Cemseal Grout GP

Multi Purpose Non-Shrink Cementitious Grout

cemseal[®]
Your Construction Chemical Partner

The Product

Cemseal Grout GP is a multi-purpose non-shrink cementitious grout. Cemseal Grout GP is based on Portland cement, graded aggregate and chemical additives, which impart controlled expansion whilst in the plastic state.

Uses

Cemseal Grout GP is suitable for repair the following concrete structures:

- ◆ General purpose grouting
- ◆ Machine Foundations
- ◆ Columns in precast Construction
- ◆ Fill core holes, rod holes and defects in concrete
- ◆ Precast and prestressed panels
- ◆ Caulking of joints and pipes
- ◆ Honeycombs

Advantages

Cemseal Grout GP is an economical and easy application material requiring the simple addition of water. Other beneficial properties :

- ◆ Ready to use, premixed, requires only the addition of water.
- ◆ Can be dry packed, rammed, trowelled, poured and pumped.
- ◆ Good pumping properties
- ◆ No metallic iron content to cause staining.
- ◆ Low permeability
- ◆ Non- toxic

Technical & Physical Data

Form	Premixed Powder	
Colour	Grey	
Packaging	25 kg / bag	
	Pourable	Flowable
Compressive Strength (Tests at Temperatures 25°C)		
1 day	30 N/mm ²	25 N/mm ²
3 days	55 N/mm ²	45 N/mm ²
7 days	65 N/mm ²	55 N/mm ²
28 days	75 N/mm ²	60 N/mm ²
Mix Designs per 25 kg	3.8 litres	4.3 litres
Bags required per m ³	76 bag	74 bag
Initial Setting Time	> 5.00 hrs	
Expansion	0.60% ~ 2.00%	
Bleeding	0.00%	
Shelf Life	12 months of kept in a cool dry sheltered place	

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Method of Statement

Surface Preparation

- ◆ The substrate must be clean, sound and free from oil, grease, laitance, curing compound or any loosely adhering particles. Weak or contaminated concrete must be removed until sound concrete is realized.
- ◆ Metal (steel & iron) surfaces and bolts or anchor holes must be clean and free from scale, rust, oil, grease, dust or loose material.

Application

- ◆ The concrete substrate should be pre-soak prior to application of Cemseal Grout GP. To pre-soak the substrate with clean water for a minimum of 5 hours prior to the grouting. Before application, the excess water should be removed & all water in the anchor and bolt holes must be blown out and no trace of free water present whilst the grouting process.
- ◆ It is essential that the formwork be constructed to facilitate rapid continuous and complete filling at area to be grouted. The formwork constructed had to be leak proof and watertight.
- ◆ Place about 75% of the premeasured clean water (depending on consistency required) into a clean container and gradually add the whole bag of Cemseal Grout GP into it while continuously mixing. Slowly add Cemseal Grout GP powder whilst mixing. Add the remaining water until the desired consistency is obtained. The mixing must be continued for a maximum of 3 minutes until a homogenous consistency is obtained. For optimum results Cemseal Grout GP must be mixed with a slow speed drill (Maximum 500rpm).
- ◆ Cemseal Grout GP can be placed in thickness ranging from 20mm to 120mm in one single application. Where thickness is greater than 50mm, it is necessary to fill Cemseal Grout GP with graded 10mm silt free aggregates to minimise temperature rise generated during the curing stage. The quantity of aggregates should not exceed 1 part aggregates to 1 part Cemseal Grout GP by weight. 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 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 machine vibrators to assist in flow, as this will cause segregation of grout. For large areas it is recommended that Cemseal Grout GP may be pumped using heavy duty diaphragm pumps.

Curing

- ◆ If formwork type repair is used, leave the formwork in place for at least 3 days. Upon removal of the formwork, cure the exposed surface immediately with curing compound or use other approved curing methods.

Others Application

To consult the local Cemseal's representative.

For Further Information	Cemseal Industries Sdn Bhd (Company No. 884153-T) No. 9 & 11, Jalan Besi, Taman Sri Putri, 81300 Skudai, Johor, West Malaysia. Tel : 607-558 3320, Fax : 607-556 9127, E-mail : info@cemseal.com.my
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