

CemGrout GP

High Strength, Non-Shrink Cementitious Grout

Description:

CemGrout GP is a ready to use non-shrinkage cement-based grout containing:

- ✦ Blended high performance cements and fillers.
- ✦ Selected quartz aggregates.
- ✦ Shrinkage compensating powders, when mixed with water produces a grey grout (similar to concrete color).

Uses:

CemGrout GP is used in the following applications:

- ✦ Grouting of steel column base plates.
- ✦ General anchor bolt and dowel fixation.
- ✦ Grouting for pre-fabricated elements, pre-stressed concrete.
- ✦ Grouting of general industrial equipment.
- ✦ Bridge bearing pads and beams.

Advantages:

CemGrout GP castable mortars are economical and easy to use material.

They offer the following beneficial properties:

- ✦ Contain no metal particles.
- ✦ Chloride free, with its high alkaline PH value, it will protect metals from corrosion.

- ✦ It has good ultimate strength both in flowable and plastic grade.
- ✦ It has excellent flexural resistance.
- ✦ It adheres to concrete, mortars, stone, steel, iron etc.
- ✦ It may be pumped, injected, vibrated or compacted.
- ✦ Resistant to water and oil penetration.
- ✦ Rapid strength development reduces down time requirements for fast track projects.

Properties :

Form	Powder	
Color	Grey	
Specific gravity	2-2.1 kg/liter	
Compressive strength	1 day	26 N/mm ²
	7 days	52 N/mm ²
	28 days	64 N/mm ²
Flexural strength	28 days	10 N/mm ²

Instructions for Use:

- ⤴ Minimum application temperature + 5°C.
- ⤴ The substrate to be properly prepared and free of all loose particles, oils and grease.
- ⤴ Chipping and or sand blasting is preferred.
- ⤴ Concrete substrates should be pre-soaked with water prior to **CemGrout GP** application; saturated surface dry condition (SSD).
- ⤴ After placement of **CemGrout GP**, exposed surface areas to be fully cured for a minimum period of 2 days from achieving its initial setting.
- ⤴ For anchoring dowels and bolts the minimum annular space around the shaft is three times, the diameter of the largest grains in the mortar mix.
- ⤴ Note expansion and flowing properties decrease when adding graded aggregate.

Mixing:

The mixing process should be mechanical. Pour 2/3 rd of the gauging water into the mixing pail. Gradually adding **CemGrout GP**, continue mixing until lump free and smooth consistency is achieved, add the balance of the gauging water, mixing for a further 2 to 3 minutes. Recommended to use either low speed (max. 500 rpm) electric drill with a basket type mixing paddle or forced action – or stand type mixers. **CemGrout GP** can be used for large cavity grouting. Aggregates may be added provided they are clean, washed and properly graded.

Example: 12.5 kg of 8 to maximum 10 mm aggregate can be added to one 25 kg bag of **CemGrout GP**, blended with 4 to 4.5 liters of gauging water.

Do not exceed 25 kg of aggregate per 25 kg bag of grouting material.

Workability grades per 25 kg powder:

Flowable grades	Plastic grades
3.0–3.25 liters water	2.75–3.0 liters water

Packaging:

CemGrout GP is supplied in 25 kg bags.

Shelf Life/ Storage:

CemGrout GP has a shelf life of 12 months, if kept in a dry environment, in its original unopened bags.

Safety Precautions:

CemGrout GP does not fall into the hazard classification of current regulations. However, it should not be swallowed or allowed to come into contact with eyes. Suitable protective gloves and goggles should be worn.

Splashes on the skin should be removed with water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.