



Grout for Post Tensioned Structures

Description

GROUT CG is a cement base, non-shrinkage cable grout, designed for grouting post tension (Pre-stressing) cable.

GROUT CG supplied as a ready to use dry powder mix, which requires only the addition of clean water, to produce high strength, consistency and flowability.

Uses

- Grouting on post tension and prestressing cables.
- Grouting of soil to anchoring pile foundations.
- Caulking of joints and pipes.

Characteristics / Advantages

- Superior compressive strength.
- Low permeability and non-shrinkage.
- High flowability.
- Factory controlled pre-blended dry mix which requires only addition of water.
- Excellent freeze resistance
- Chloride free.

Standard Compliance

- ASTM C939 & C1741.
- EN 447.

Typical Properties

Appearance	:	Powder
Color	:	Grey
Fresh density (kg/liter)	:	~ 2.0
Yield	:	~ 15.8 liters per 25kg
Bleeding	:	Nil
Fluidity	:	
T.		15 sec
T1		14 sec
T2		13 sec
Compressive Strength	:	
@ 7 days		≥ 45 MPa
@ 28 days		≥ 60 MPa
Flexural Strength	:	
@ 7 days		≥ 6 MPa
@ 28 days		≥ 7 MPa

Application Instructions

Surface preparation

The substrate should be sound and clean from dust, oils, dirt, curing compounds, etc. It should be also sufficiently cured to avoid any shrinkage cracks. The substrate should be dampened and excess water to be removed prior to application.



MICSHIELD™



GROUT CG

Mixing

Pour into a suitable container 6.5 – 7.0 liters of clean water. Add 25 kg powder to the water and mix using a low speed mixing drill fitted with the suitable mixing paddle. Continue mixing for 2-3 minutes until achieving lumps-free mix.

Application

GROUT CG pumped on strand duct or substrate by use of a pump with a pressure generator (10-40) bar.

Grout flow in the cable shall be in one direction starting from the lowest inlet and progressing along the cable

The rate of grouting should be controlled because of , If the grout is pumped too quickly, air and water can be trapped due to turbulent flow in the ducts and cause voids in the grout. If pumped too slowly, blockages and other problems may occur.

Cleaning

Tools should be cleaned immediately with clean water. Hardened material should be removed mechanically.

Packaging

GROUT CG is available in 25 kg bags.

Storage

GROUT CG has a shelf life of 12 months when stored in its original unopened packing in dry conditions. Shelf life may reduce if the recommended storage conditions changed.

Safety Instructions

Like any cementitious material, GROUT CG contains hydraulic cement and may cause irritation to skin or eyes. For further information Refer to the Material Safety Data Sheet.

Disclaimer

Manaseer Industrial Complex has the right to amend its datasheets anytime. Please make sure to have the latest published datasheet version.

This product is environmentally friendly

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Is a Member of US Green Building



Page 2 of 2

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