



# **Corrogrout CG**

# Cable grout

# **Product Features**

**Corrogrout CG** is a specially formulated Portland cement powder mix designed for the grouting of cables in pre-stressed and in post-tensioned concrete.

**Corrogrout CG** mix design consists of a blend of fine and ultra-fine cement plus a set of synergistic admixtures. The grout has a chloride free mix design enabling the use of cable grout in contact with reinforcing steel.

## **Typical Uses**

**Corrogrout CG** is typically used for grouting of cable ducts, voids and fine fissures. It is also used for support of cable anchor plates and ground anchors; to provide bearing or contact between structural elements; for grouting behind shafts and tunnel linings; for underpinning, loose floor and road slabs.

Technical Data		
Properties	Test Standards	Typical Values
Result obtained by testing cable grout		
Flow cone	BS EN 445 - 1997	: T0 14s : T30 13s
Bleeding	BS EN 445 - 1997	: NIL
Compressive strength	BS EN 196-1	
@ 7 days @ 28 days		: 47 N/mm² : 60 N/mm²

Note: All values given are subject to 5 - 10% tolerance.

## **Directions for Use**

### Preparation

All necessary preparatory work must be completed before thegrout is mixed. The fluid nature of the grout at 35% maximumwater to powder ratio enables it to flow long distances in wellprepared elements. Sufficient head should always be provided by positive pump pressure to ensure grout flow along or upwards in the cable ducts. Site trials may be carried out to confirm that suitable equipment is available and an appropriate water / powder ratio is chosen. A surcharge stand pipe should be allowed for to take up "sinkage" as the grout fills voids. Ensure that enough grout is mixed and available for the grouting operation to be completed in one continuous pour.

#### Mixing

For each 20 kg of cable grout, a maximum of 6.5 - 7 litres of water are required. For single bag mixes suitable mixing may be achieved using a high torque slow speed drill with a grout stirrer. For larger mixes use standard grout mixer.

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Pour required quantity of clean water into the mixing vessel. Slowly add the cable grout to the water whilst continually mixing. Keep the mixed grout in a slow agitating holding tank prior placing.

The material readily mixes with water to produce a fluid flowing grout which will penetrate and fill fine voids within and around the cables then harden without shrinking to give a high strength product. The grout is shrinkage compensated and contains a powerful corrosion inhibitor to protect cables. The grout will not segregate or bleed, and is pumpable.

#### Application

**Corrogrout CG** should be pumped using positive displacement type pump capable of generating at least 10 bar pressure. Up to 40 bar may be required to fill particularly long or high upward running duct. The rate and continuity of placing should be controlled to encourage good penetration of grout in to the voids within the duct and the expulsion of air from the duct. Grout must start from one side of the cable till it flows from consecutive air vent valves and outlet valves.

#### Curing

After grouting has been completed, any exposed grout must be cured immediately. During adverse weather conditions, such as high temperatures and drying winds, the grout should be cured frequently.

## **Hot Weather Conditions**

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Use iced water for mixing.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

### Cleaning

Clean tools and equipment immediately after use with plain water.

## Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendation.



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Avoid application if the work area may be subject to the onset of rain or moving water.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

# Estimating

Each 20 kg of grout will yield aproximatelly 13 litres of mixed material at water dose rate of 35%.

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

## Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces. Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

# Storage

**Corrogrout CG** has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.