



50360919

# X-Tite CableGrout

High performance highly fluid cementitious grout

## Product Description

X-Tite CableGrout is a high performance, highly fluid cementitious grout with extended working time and dual shrinkage compensation system.

## Advantages

- High flow
- Pumpable
- No bleed
- Shrinkage compensated
- Dimensionally stable
- Extended working time
- Excellent bond to steel
- Chloride free

## Uses

- Post tensioned cables and rods
- Rock and sheet pile anchors
- Sonic tubes
- Crack injection

## Specification Compliance

Post-Tensioning Institute (PTI)

FIP

BS EN 447

## Laboratory Test Data

Property	Typical Results			
	24 hours	3 days	7 days	28 days
<b>Compressive strength</b>	>20MPa	>35MPa	>45MPa	>55MPa
<b>Flow</b> (ASTM C939)	Zero Min <25 sec.			
<b>Chloride permeability</b> (ASTM C1202)	940 Coulombs			
<b>Bleed</b>	<0.1%			
<b>Expansion</b>	0 to 4% positive			
<b>Chloride content</b>	<0.1 of OPC Content			

## Volatile Organic Content

VOC = <10g/L

## Packaging

25kg bags.

## Yield

Approximately 13.5L of mixed grout per bag.

## Shelf Life

12 months when stored at between 10 to 35C under shade in a dry environment.

## Installation Guidelines

Post-tensioning is a specialist operation. Grouting of the cable should only be carried out as per the recommended procedures of post-tensioning specialists.

## Mixing

For best results a mechanically powered grout mixer should be used. When quantities of up to 60 kg are used, a slow speed drill fitted with a high shear mixer is suitable. Larger quantities will require a high shear vane mixer.

To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labour are available. The use of a grout holding tank with provision to gently agitate the grout may be required.

6.8 to 7.6 litres of clean water (depending on nature of cement) per bag of X-Tite CableGrout to achieve the correct consistency. The water should be accurately measured into the mixer then X-Tite CableGrout slowly added and continuous mixing should take place for 5 minutes. This will ensure that the grout has a smooth even consistency.

## Placing

Place the grout within 20 minutes of mixing.

Pumping should be from a single point to eliminate any air or water entrapment. A heavy duty diaphragm pump is recommended for pumping. Screw feed and piston pumps may also be suitable.

## Curing

Any exposed areas should be thoroughly cured. This should be done by the use of X-Cure WB75 curing membrane.

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## Clean Up

X-Tite CableGrout should be removed from tools and equipment with clean water immediately after use. Cured material can be removed mechanically.

## Limitations

### Low temperature working

For ambient temperatures below 10°C the formwork should be kept in place for at least 36 hours.

When the air or contact surface temperatures are 5°C or below on a falling thermometer, warm water (30 to 40°C) is recommended to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted.

### High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- (i) Store unmixed material in a shaded location avoiding exposure to direct sunlight.
- (ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- (iii) Try to eliminate application during the hottest times of the day.
- (iv) Make sufficient material, plant and labour available to ensure that application is a continuous process.
- (v) Water (below 20°C) should be used for mixing the grout prior to placement.

## Health and Safety

**This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website [www.ncc.com.eg](http://www.ncc.com.eg)**

## Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit [www.ncc.com.eg](http://www.ncc.com.eg) for a full list of NCC X-Calibur ATs.

## Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on [www.ncc.com.eg](http://www.ncc.com.eg) to ensure you have the latest version.

## Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected.

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