

X-Tite Construction Grout

General purpose non-shrink grout.

Product Description

X-Tite Construction Grout is a non-shrink cementitious grout containing expansion agents to prevent shrinkage while the product hardens.

Advantages

- High flow.
- High early strength.
- Controlled expansion.
- Chloride free.
- Can be bulked out for thick section use and concrete repair.

Uses

- Anchor bolts.
- Base plates.
- Crane rails.
- Bridge bearings.
- Columns.
- Pile cap re-profiling.
- Pre-cast elements.
- Cast and form concrete repairs..

Laboratory Test Data

Property	Typical Results
Nature	Powder
Color	Grey
Specific gravity of paste	2.3 ± 0.05 g/cm ³
Compressive strength (ASTM C109) W/P 0.125	>60 MPa at 28 days
Flexural strength (ASTM C580) W/P 0.125	>10 MPa
24 hour expansion	<4%
Setting W/P 0.125 Initial Final	2 Hrs. 4 Hrs.

The above data was obtained under laboratory conditions using freshly manufactured material. Actual results in the field will vary as a result of different factors such as how long the product has been stored, storage conditions, temperature, actual water content, curing regime, quality of samples, compaction method and the type of equipment used for sample preparation & testing.

Flow Distances

Gap Depth	100mm Head	250mm Head
10mm	1m	2.5m
20mm	2m	>3m
30mm	2.5m	>3m
40mm	>3m	>3m

Standard Compliance

SCAQMD Rule 1168

British Standards for compression, bond and flexural.

Application Properties

Minimum grout depth	10mm
Maximum grout depth	150mm
Service Temperature	-40C to +80C

Packaging

25kg bags.

Water Content

25kg bag; 3.125 to 3.25 liters dependent as workability required.

Yield

Approximately 12.3 to 13 liters per 25kg bag.

Yield will vary with water content.

Shelf Life

24 months when stored below 35°C under shade in a dry environment.

Installation Guidelines

NCC X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface Preparation

Concrete substrate must be structurally sound. Loose or unsound concrete should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits.

Mixing

Add X-Tite Construction Grout to water and mix for three to five minutes using an NCC X-Calibur approved forced action mechanical mixer. The actual water content per bag depends on the pack size used (25kg).

Grouting

Saturate porous substrates for at least 3 hours prior to pouring grout. Free water should be removed immediately prior to pouring. Pour the grout continuously and in such a way as to ensure no air is trapped. It may be necessary to provide relief holes, or run a chain or cable through the grout immediately after pouring. Formwork should be grout-tight and water tested prior to casting.

Curing

Once the grouting has been completed, all exposed areas of grout should be cured immediately.

Limitations

Do not use in unrestrained conditions.
Do not mix using a drum mixer.
Do not use to grout aluminum objects.
Ensure mixed grout temperature does not exceed 30C.
Avoid skin contact.
Do not discard into the water system.

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

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATSS') 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 for a full list of NCC X-Calibur ATSSs.

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 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. NCC 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. NCC X-Calibur Construction Chemicals **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Chemicals shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.