

General purpose non-shrink grout

Product Description

TAL 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
Compressive strength (ASTM C309)	
Water/Powder ratio: 0.15	≥75MPa at 28 days
Water/Powder ratio: 0.18	≥69MPa at 28 days
24 hour expansion (IHM)	<4%

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

Application Properties

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

Packaging

25kg bags.

Yield

Approximately 13 to 13.5 liters per 25kg bag.
Yield will vary with water content.

Water Content

25kg bag: 3.8 to 4.5 liters dependent as workability required.

Shelf Life

12 months when stored between 4°C - 35°C under shade in a dry environment.

Installation Guidelines

TAL 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 TAL CONSTRUCTION GROUT to water and mix for three to five minutes using an TAL 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 30°C.
- Avoid skin contact.
- Do not discard into the water system.

