

High performance shrinkage compensated grout

Product Description

TAL PERFORMANCE GROUT is a high performance and high flow cementitious grout. It has dual shrinkage compensation, providing non shrink properties in both the plastic and hardened state.

Advantages

- High flow
- High early strength
- Controlled expansion
- Shrinkage compensated
- Dimensionally stable
- Chloride free

Uses

- Precision grouting of:
- Anchor bolts
- Base plates
- Crane rails
- Bridge bearings
- Columns
- Pre-cast elements

Specification Compliance

CRD-C621-82A
ASTM C 1107

Laboratory Test Data

Property	Typical Results
Compressive strength (ASTM C309)	≥75MPa at 28 days

The above data was obtained under laboratory conditions using freshly manufactured material at a water/powder ratio of 0.2. 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
Water content	4.7 to 5.3 liters per bag

Packaging

25kg bags.

Yield

Approximately 13.5 liters of mixed grout per bag. Yield will vary with water content.

Shelf Life

12 months when stored between 5° - 30°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 substrates must be structurally sound. Loose or unsound concrete should be removed. Surfaces must be entirely free of oil, grease, paint, dust, laitance or other contaminants. Steel surfaces should be free from rust, oil and grease.

Mixing

Mix small quantities one bag at a time using a slow speed (500rpm) drill and suitable mixing paddle. Mix large quantities using a high shear grout mixer. Add water first, then slowly add the powder into the water while mixing. After adding all the water, mix for up to 5 minutes or until the powder has fully dispersed and the grout has a flowable or fluid consistency.

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.

