

T1 – GP Grout 188 (Non-Shrink Grout)

DESCRIPTION

T1-GP Grout 188 Non-Shrink Grout is a general-purpose non-shrink grout recommended for grouting voids in structural elements such as patching up honeycombs in concrete, filling gaps in precast elements and grouting base plates and bearings.

SUITABLE FOR

- General purpose
- Anchoring of mechanical equipment
- Anchoring of steel bars
- Filling rigid joints between elements in concrete and precast concrete structures
- Execution of underpinning
- Pressure grouting of concrete structures
- Grouting of machine base plates or bridge bearings
- Concrete repair
- Angle fillet

TECHNICAL CHARACTERISTICS

- **T1-GP Grout 188 Non-Shrink Grout** is a pre-blended grey powdered grout, base on high strength cement, 1 mm graded aggregate, special additives and an expansive agent.
- When mixed with water, **T1-GP Grout 188 Non-Shrink Grout** is transformed into a non-segregated exceptionally high fluid grout that is able to fill intricate spaces.

PACKING

25kg/bag

SHELF LIFE

9 months from manufacturing date is stored unopened and dry condition. (Store in temperatures between + 5°C and + 30°C.

APPLICATION PROCEDURE

Substrate Preparation

Chip or remove loose and damaged concrete and laitance using a point tool or chisel in order to obtain a clean surface. Ensure surface/substrate is clean, sound, dust-free and without any traces of oil, laitance or curing compound. Damp the substrate using sponge/cloth prior to application.

Mixing

- A 25kg bag of **T1-GP Grout 188 Non-Shrink Grout** requires 4.5 litres of clean water.
- Mixing should be carried out as follows:
 - By machine or hand mixer for flowable of fluid consistency.
 - Mixing time 3 minutes maximum.

Application of T1 GP Grout 188 Non-Shrink Grout

- Formworks should be sufficiently tight-fitting and sealed against breakages.
- On the placement side, the forms should be constructed above the bottom of the plate to form a headbox. The headbox should be positioned at a minimum of 50mm from the plate and slope away at a 45° to assist grout placement as well as prevent air entrapment.
- The form should be minimum 50mm away from the plate and extend at least 25mm above the bottom of the plate.
- Non-absorbent formwork is preferred, otherwise, it should be properly oiled to prevent grout adhesion.
- Thoroughly wet all surfaces prior to placement and remove any excess water just before introducing the grout.
- The mixed grout should be placed promptly before it stiffens. Higher temperature accelerates setting time.
- Pour grout from one side only to avoid air entrapment.
- Adequate grout head must always be maintained to achieve a continuous flow.
- Vibrator should not be used. Excessive vibration will cause separation of each ingredient.

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TECHNICAL SPECIFICATIONS

Appearance	Grey Powder
Consistency	Flowing
Compressive Strength	15 MPa (day 1) 30 MPa (day 7) 50 MPa (day 28)
Initial Setting Time	6 – 8 hours
Final Setting Time	10 – 12 hours

PRECAUTIONS

- Temperature range for use from 5°C to 35°C.
- Apply to only clean, sound resistant substrates, free of loose material.
- Surfaces must be protected from air with a protective coating once setting starts.
- Do not mix other hydraulic binders or cement.
- Sand and admixtures must not be added.
- Foresee the need for intermediate joints and respect the existing structural joints.
- Chipping or removing loose or damaged concrete is necessary for repairs.

CURING

As soon as the mortar begins to set, the exposed surface should be treated with a protective coating.