



**AITKEN FREEMAN**

Aitken Freeman Pty Ltd  
Factory 7, 7-9 Brough St  
Springvale Vic 3171  
PO Box 548  
Noble Park Vic 3174  
Ph: 03 9701 3955  
Fax: 03 9701 3956

Web: [www.aitkenfreeman.com](http://www.aitkenfreeman.com)  
email: [sales@aitkenfreeman.com](mailto:sales@aitkenfreeman.com)

# Tecgrout GP

## General purpose non shrink Class A Grout

### Description

Tecgrout GP is a flowable, non-shrink Class A grout based on ordinary Portland cement, specially graded aggregates and admixtures to produce a flowable grout at a low water cement ratio. Supplied as a ready to use dry powder, the addition of a controlled amount of clean water produces a fluid, pourable or pumpable non-shrink grout for gap thicknesses up to 100mm.

### Uses

Tecgrout GP is used for general purpose grouting where it is essential to eliminate shrinkage when completely filling the void between a base plate and a substrate. Such an application would be the grouting of a stanchion base plate. It can also be used for anchoring a wide range of fixings, including masts, anchor bolts and fence posts.

### Advantages

- Flowable, high strength product
- Easy Application
- Gaseous expansions system compensates for shrinkage and settlement in the plastic state
- No metallic iron content to cause staining
- Prepackaged material overcomes potential on-site batching variations
- Develops high early strength without the use of chlorides
- High ultimate strength and low permeability ensure the durability of the hardened grout

### Application Instructions

#### Typical Properties

The following properties were obtained at a water powder ratio of 0.20 and temperature of 20°C.

Compressive Strength	25MPa @ 1 day 42MPa @ 7 days 64 MPa @ 28 days
Flexural Strength	2.5 MPa @ 1 days 9.0 MPa @ 7 days 10.0 MPa @ 28 days
Time for expansion	
Start:	5 minutes
Finish:	2 hours
Fresh Wet Density	Approximately 2160 kg/cu.m depending on the consistency used
Young's Modulus	25 GPa
Expansion characteristics	An expansion of up to 1% overcomes shrinkage in plastic material
Setting Times	
Initial:	165 minutes
Final:	270 minutes

### Preparation

All surfaces to be contacted must be clean, dry and free of oil, grease or other contaminants which may affect adhesion of the product. Loose concrete or other material should be removed from the surface and repaired prior to application of Tecgrout GP. Bolt holes or fixing pockets must be blown clean of any dirt or debris.

## Priming

No priming is necessary when grouting concrete rebates or voids. Pre-soaking the concrete with potable water several hours prior to grouting will improve adhesion and strength developments. Immediately before grouting takes place, any free water should be removed with particular care being taken to blow out all bolt holes and pockets.

## Base Plates

It is essential that contacted plates be clean and free from grease, oil or scale. Air relief holes should be provided to allow venting of any isolated high spots.

## Levelling Shims

If these are to be removed after grout has hardened, they should be treated with a suitable release agent, such as Form Release Oil.

## Formwork

The formwork should be constructed to be leakproof. This can be achieved by using foam rubber strips or mastic sealant beneath the constructed formwork and between joints.

In some cases it is practical to use a sacrificial semi-dry sand and cement formwork. The formwork should contain outlets for pre-soaking.

## Unrestrained surface area

This must be kept to a minimum. Generally the gap width between the formwork and the plate edge should not exceed 150mm on the pouring side and 50mm on the opposite side. It is advisable to have no gap at the flank sides.

## Mixing

Tecgrout GP is suitable for mixing using a drill and suitable paddle, or pump where a large quantity is required.

Use 3.8 - 4.0 litres of clean water per bag of Tecgrout GP to achieve a smooth flowable consistency. Mix for 3 to 5 minutes to ensure thorough mixing. Excess water will reduce the final strength and make application of the grout more difficult. Always add the powder to the water while mixing slowly to avoid lumps. Only mix that quantity of material that can be used within the setting time. Do not attempt to rework or retemper any partially set product.

## Application

Place the mixed Tecgrout GP in the formed void by pouring or pumping in a single continuous operation to fill the void.

Use a header box where possible and maintain the grout level above the bottom of the base plate. If a break is inevitable, it should not exceed 10 minutes before pumping is recommenced. The provision of air bleed holes will help facilitate placement under complex base plates.

The minimum thickness applied in any application should be limited to 10mm.

## Curing

On completion of grouting, all exposed surfaces should be thoroughly cured. This can be done with a curing compound in the Aitken Freeman range, continuous application of water and/or wet hessian.

## Clean Up

Clean all equipment with water immediately after use. Hardened grout can only be removed mechanically, and with difficulty.

## Estimating

### Packaging

Tecgrout GP is supplied in poly lined multi-ply paper sacks with a net weight of 20kg.

### Yield

Allowance should be made for wastage when estimating quantities required. The approximate yield of a 20 kg bag for different consistencies is:

<b>Consistency</b>	Dry Pack	Fluid
<b>Yield (litre)</b>	10.5	12

## Storage

Tecgrout GP is a cement based product which should be stored in a dry area off the ground, in original sealed bags. Shelf life under these conditions is 12 months. High temperature or humidity may reduce shelf life of the product.

## Precautions

Where temperatures less than 5°C or greater than 35°C are encountered, contact our Technical Staff for specific advice.

Tecgrout GP is non toxic, but it is alkaline in nature. Any contact with eyes or skin should be washed off with clean water. Protective gloves and clothing should be worn.

The use of open bags will reduce the fluidity of the grout. Always use fresh grout in critical applications.

**Material Safety Data Sheets (MSDS) are available to users of Aitken Freeman products on request. Please ensure you have read this data sheet, the MSDS, and the product label carefully before first use of any product.**

## TECHNICAL SUPPORT

Aitken Freeman offers a comprehensive range of high quality, high performance construction products. In addition, Aitken Freeman offers technical support to users and specifiers, and can arrange on-site visits to end users and contractors.

## ALLIED PRODUCTS

Aitken Freeman manufactures a broad range of construction products and can supply the following:

- Grouts and anchoring systems
- Epoxy Surface Coatings
- Admixtures for concrete
- Adhesives & Sealants
- Floor toppings
- Floor levelling compounds
- Concrete Repair materials
- Waterproofing solutions

Please call our office for more information on any of these products.

***Refer to Material Safety Data Sheet for precautions and personal protection***

**Disclaimer:** Any advice, recommendation, information, assistance or service provided by Aitken Freeman Pty Ltd in relation to goods manufactured or supplied by them or their use and application is in good faith and is believed by Aitken Freeman Pty Ltd to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Aitken Freeman Pty Ltd is provided without liability.