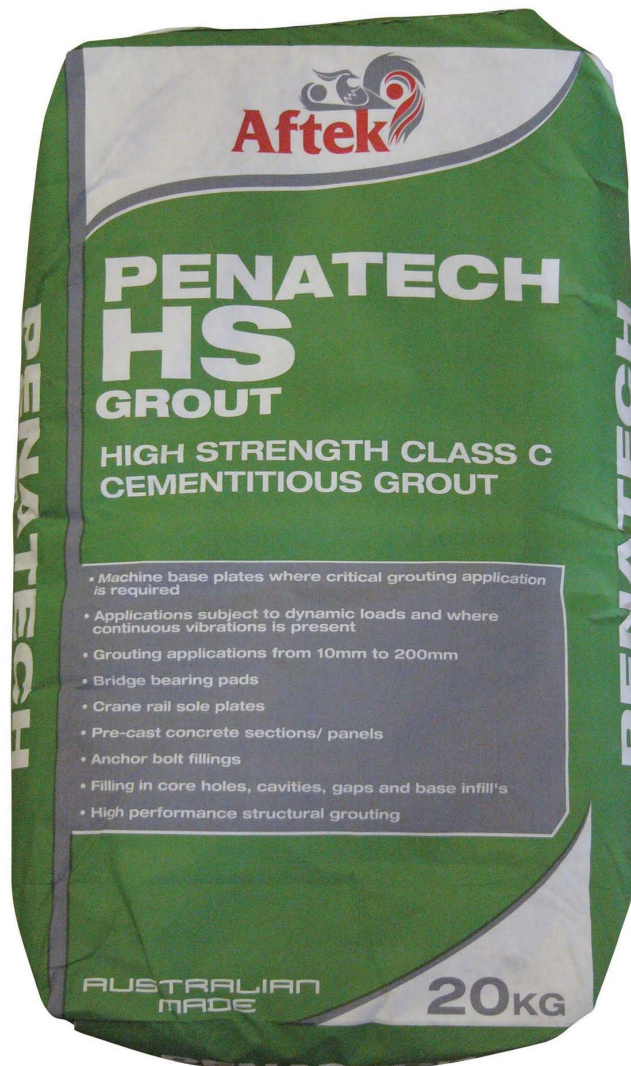


# Aftek Penatech HS Grout, 20kg Bag

## Product Images



## Short Description

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20kg Bag of Aftek Penatech HS Grout plus. A high strength, precision Class C grout. Non-shrink dual expansion compensates for shrinkage in both the plastic and hardened state.

## Description

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Aftek Penatech HS Grout is a high strength, precision Class C grout. Non shrink dual expansion compensates for shrinkage in both the plastic and hardened state. Aftek Penatech HS Grout is a high strength, precision Class C grout. Non-shrink dual expansion compensates for shrinkage in both the plastic and hardened state. Penatech HS complies with US Corp of Engineers Specification of non-shrink grout, CRDC 621-82A and ATSM C1107-91 (Type C) Standard.

### Features:

- High early and ultimate strength
- Exceptional flow characteristics, good flow retention
- High ultimate strength (28 days)
- Shrinkage compensated in both plastic and hardened states
- Non metallic
- Can be dry packed
- Complies with ASTM C1107-91 and CRDC-621-82
- Good impact and thermal resistance
- Ready to use, just add water

### Ideal for:

- Machine base plates where critical grouting application is required
- Applications subject to dynamic loads and where continuous vibrations is present
- Bridge bearing pads
- Crane rail sole plates
- Pre-cast concrete sections/ panels
- Anchor bolt fillings
- Filling in core holes, cavities, gaps and base infills
- High performance structural grouting

## APPLICATION

### Surface Preparation:

The substrate to be grouted must be clean. Ensure the surface is free from dust, oil, grease, curing compounds or any foreign matter that will affect the grout adhesion bond. Bolt holes and anchor points must be clean and free of water. All prepared areas must be saturated with water for a minimum of 4 hours prior to grouting. This will reduce the porosity of the substrate.

Prior to grouting, ensure all excess water is removed and all holes must be free from water and no puddles of water are present. If grouting under base plates, it is imperative that bleed holes or venting holes are provided (this will eliminate pressure build-up in a confined area).

It is essential that the formwork to be constructed is leak proof and watertight. In order to achieve this, it is

recommended that foam rubber strips or a suitable sealant such as polyurethane or silicone be used underneath the formwork.

For grouting requiring thicknesses greater than 200mm, special procedures are necessary. Refer to the Technical Data Sheet for further information.

### **Mixing:**

Penatech HS Grout must be mixed with a mechanical mixer with a high shear mixer or a suitable drum mixer that creates a forced action mixing. For a dry pack / stiff grout, add 2.2 to 2.6 litres of water. For a plastic / trowellable grout, add 2.8 to 3.2 litres per 20kg bag. For a flowable grout, add 3.5 - 4 litres.

### **Placement:**

Penatech HS Grout can be placed in two different ways:

For gravity flow using a header box: Mix the grout to a flowable consistency and pour grout from one side to avoid air entrapment. Ensure a grout head box is used and the grout head is maintained at all times. This will ensure continuous flow of grout without the possibility of air entrapment.

For large volume pumping: Mix the grout using a forced action mixer. A positive displacement pump is the recommended pump for large placement application. For large grout pours ensure the grout is pumped from the bottom upwards as this will minimize any air entrapment and ensure complete void filling. For base plates pump from one side ensuring an air bleeder hole is available in the formwork or base plate to ensure any build-up of pressure is released from the bleeder hole.

On completion of grout application, it should be cured in accordance to good practice with plastic sheet, hessian or curing compounds such as Curecon.

### **Clean Up:**

Wash all tools and equipment with fresh, clean water immediately after use. Penatech HS Grout can only be removed mechanically.

### **Storage:**

9 months if stored in the original sealed packaging in a cool, dry place.

### **Yield:**

A 20kg bag will yield approximately 10.2 litres of trowellable grout, or 11 litres of flowable grout.

## Additional Information

CODE	40-AFPTHSG
U.O.M	Bag
Similar Products	Parchem Conbextra HS Sika Grout - Ultra Bostik Techflow HS
Pallet Quantity	64 bags
Brand	Aftek
Range / Model	Penatech
Size	20 Kg
Appearance / Composition	Powder
Cure Time	Initial 2 hours, Final 3.5 hours (trowellable) Initial 2.5 hours, Final 4 hours (flowable)
Compressive Strength at 7 days (MPa)	75 (trowellable) or 50 (flowable)
Compressive Strength at 28 days (MPa)	85 (trowellable) or 65 (flowable)
Yield	Approx 10.2L trowellable (or 11 IL flowable)
Class	Class C

