

## Two component cementitious anchor grout

### Uses

Multi Permanent Fix grout is specifically formulated for grouting machinery anchoring bolts.

### Advantages

- \* Rapid strength gain ensures early in-service time.
- \* Chloride free, non-corrosive.
- \* Cement based and solvent free, non-flammable and non-toxic.

### Description

Multi Permanent Fix is a dry powder blend formulated from cement, graded fillers and additives. These impart properties of controlled set and fast strength gain. The product requires only the addition of an accurately measured quantity of activator to produce a free flowing anchor grout.

### Properties

#### Working time

The grout should be placed within 20 minutes after adding activator supplied.

#### Rapid Set

Setting time tested in accordance with SABS EN 196-3:1994

Temp °C	Initial set (min)	Final set (min)
25	28	36

#### Strength gain

Temp °C	Compressive Strength (MPa)	
	1 hrs	4 hrs
25	7 - 10	9 - 14

### Application Instructions

#### Hole preparation

Optimum performance of Multi Permanent Fix requires rough sided, dry, dust free holes. Use of rotary percussive drills with air or water flushing is recommended.

### Bar preparation

All bars should preferably be degreased and all flaky rust removed.

### Mixing

Mixing may be carried out manually or mechanically.

The correct quantity of activator required to achieve the desired consistency is supplied. Remove the polythene bag containing the powder from the bucket and pour activator into the bucket. Slowly add the powder to the activator and mix continuously for at least two minutes until the material is well mixed.

The wall of the bucket should then be scraped down to ensure components do not remain around the side.

Mixing should continue for another two minutes.

When a smooth, even consistency is achieved, the grout is ready for use and should be placed within 15 minutes of mixing.

Do not add extra activator.

### Installation

The Multi Permanent Fix grout should be poured steadily into the prepared holes. The anchor bar is then pressed into the hole to the required depth. Slight agitation of the bar will assist in achieving a complete bond. The bar should then be left undisturbed in the required position until the grout is set.

### Cleaning

Equipment can be cleaned with water before the grout sets. Hardened grout should be removed mechanically.

### Estimating

PACK SIZE (kgs)	MIX WATER (Litres)	VOLUME YIELD (Litres)
10.0	2.0	6.6

- **Supplied in a 10 litre polyethylene bucket containing grout in a polythene bag and bottle with activator liquid.**

### **Storage/Shelf life**

Multi Permanent Fix has a shelf life of 12 months when stored in cool, dry, conditions, unopened.

### **Precautions**

### **Health and Safety**

Multi Permanent Fix is alkaline and non-toxic. Use of gloves and goggles is recommended. Splashes should be removed from skin and eyes by washing with plenty of clean water. In case of splashes in the eyes, medical attention should be sought immediately, refer to Material Safety Data Sheet.

### **Technical Support**

Minova RSA provides a technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

### **Additional information**

Minova RSA is a market leader specialising in the supply of high performance chemical products for the mining and tunnelling industries.

Minova RSA range of mining products includes anchoring and backfill systems, bagged cement products, high yield grouts, mine sealants, equipment and accessories.

### **Important note**

Minova RSA Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Minova RSA endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

Minova RSA  
Reg. No. 2001/027226/07, ISO 9001:2000 Company

### **Minova RSA**

trading name of Stratabolt (Pty) Ltd

Reg No. 2001/027226/07

Cnr Anvil & Brewery Roads

Isando

P.O. Box 52

Isando, 1600. South Africa

Tel: +27 (11) 923-1900

Fax: +27 (11) 923-1935

Email: [info@minovarsa.co.za](mailto:info@minovarsa.co.za)

Web: [www.minovainternational.com](http://www.minovainternational.com)



A member of the Orica Group

® trade mark of MINOVA RSA