



Aitken Freeman P/L  
 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)

# Tecpatch Structural

## Mortar for structural repairs of concrete

### Description

Tecpatch Structural is a fine filled, high strength, cementitious mortar, specifically formulated for the repair of damaged concrete where a structural repair is required. The specially selected cements and polymers contained in Tecpatch Structural allows the build-up of 25mm without slump, and exceptional adhesion to concrete and masonry materials with negligible shrinkage.

### Advantages

- Good Adhesion
- High Strength
- Easy application
- Durable

### Application Instructions

#### Typical Properties

Set Times	@ 20°C	
	Initial	165 minutes
	Final	270 minutes
Compressive Strength		
	1 day	25 MPa
	7 days	50 MPa
	28 days	55 MPa

### Preparation

All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond. Any cracked or weakened concrete should be removed prior to being repaired to provide a solid foundation. Scabbling or water blasting should be used to remove laitance and provide a mechanical key.

### Priming

Priming with Renderprime is essential to ensure good adhesion and optimum build. Where the substrate is very porous predampening with water may be required to prevent rapid drying of the primer. Free water on the surface will reduce the bond and ultimate strength.

### Mixing

Tecpatch Structural is suitable for mixing using a drill and suitable paddle or by hand where only a small

quantity is required. Use 2.0 - 2.4 litres of water per bag of Tecpatch Structural to achieve a smooth, soft mortar consistency. Excess water will reduce the final strength and make application of the render 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

Apply the mixed Tecpatch Structural to the substrate using a trowel to give the required finished thickness. The maximum thickness applied in any application should be limited to 25mm. Feather edging should be avoided in patch repairs, the minimum application thickness of 5mm should not be exceeded.

### Curing

The application of a thin coat of Renderprime as a curing membrane will reduce premature drying in repairs. Where repairs are subject to direct sun or strong winds the use of is recommended.

### Clean Up

Clean all equipment with water immediately after use.

### Estimating

#### Packaging

Tecpatch Structural is supplied in 20 kg bags. Renderprime is supplied in 5 and 20 litre containers.

### Yield

A 20 kg bag of Tecpatch Structural will cover approximately 1.0 sq.m. at an average thickness of 10mm.

Renderprime is used at 5 to 7 sq.m. per litre. A scabbled surface will reduce the area covered by the primer and topping.

### Storage

Tecpatch Structural is a cement based product which must stored in a dry area off the ground.

## **Precautions**

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

Tecpatch Structural 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.

### **Note**

Material safety data sheets for these and all Aitken Freeman products are available on request. Read the MSDS and product label carefully before using.

All reasonable care is taken in the compilation of this data sheet. All recommendations regarding use are made without guarantee as the conditions of use are beyond the control of the manufacturer.

## **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

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

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