



Tecpatch Structural

Mortar for structural repairs of concrete

USES

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.

BENEFITS

- Good Adhesion
- High Strength
- Easy application
- Durable Finish

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.

APPLICATION

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.

DESCRIPTION

Tecpatch Structural is supplied as a ready to use, factory prepared, dry powder. Tecpatch HB50 is a blend of Portland cements, polymers and chemical additives which reduce water demand and produce an easily trowelled, high build concrete repair mortar.

TYPICAL PROPERTIES

Compressive Strength @20°C

24 Hours	25 MPa
7 Days	50 MPa
28 Days	55 MPa
Setting Times	
Initial Set	165 minutes
Final Set	270 minutes

Installation

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

Tecpatch Structural should be removed from tools and equipment immediately after completion using water. Cured material can only be removed mechanically.

STORAGE

Tecpatch Structural has a shelf life of 12 months if kept in dry store in unopened, sealed bags. If stored in high temperature and/or high humidity locations, the shelf life may be significantly reduced

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.

Estimating & Supply

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

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

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

PRECAUTIONS

Tecpatch Structural contains cement powders which, when mixed or become damp, release alkalies which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of contact with the skin, rinse with plenty of clean water, then cleanse with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

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.

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

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

Location:

Factory 7
7-9 Brough St
Springvale.Vic.3171
Ph: 03 9701 3955
www.aitkenfreeman.com