



HEAD OFFICE
22 Park Drive
Dandenong VIC 3175

Phone: **(03) 9768 4900**
Fax **(03) 9768 4999**
www.unitex.com.au

NSW OFFICE
14 Artisan Road
Seven Hills NSW 2147

Phone: **(02) 9838 0911**
Fax **(02) 9838 9555**
www.unitex.com.au

RENDER WAREHOUSE
1346 North Road
Oakleigh South VIC 3167

Phone: **1800 RENDER**
Fax **(03) 9544 3620**
www.render.com.au

Technical Data Sheet

Unitex® Panel Patch

Blended dry powder render formulated for the repair of surface damaged concrete. Unitex® Panel Patch provides a smooth and solid finish and has a 4 hour fire rating, as tested to AS 1530.4-2005.

Description

Unitex® Panel Patch is a fine to medium cement-based blended powder specifically formulated for the repair of surface damaged concrete. The carefully selected ingredients provide a mortar with very strong adhesion to concrete and masonry substrates.

For the discerning project managers, builders and applicators, Unitex® Panel Patch assists your project as follows:

Easy to apply.

4 hour fire rating.

Is polymer-modified for strong adhesion to surfaces.

20 mpa compressive strength after 28 days.

Easily prepared. Just add water and drill to your preferred consistency.

Negligible shrinkage.

One pass application.

Available in 2 colours, off-white and grey.

Consistent quality.

Is readily available in paper sacks individually or on 60 sack pallets.

Is manufactured by Unitex in Australia.

Uses

Unitex® Panel Patch is trowel applied and suitable for a one coat application over joining plate recesses of precast panels, applied 30 mm thick, or damaged concrete. Unitex® Panel Patch is a modified cement-based high performance, water resistant and adhesion promoting render system.

Unitex® Panel Patch provides a smooth and solid finish. Independent testing authorities have tested this Unitex® Panel Patch for a 4 hour fire rating to AS 1530.4-2005 and have also determined that the Compressive Strength is 20 mpa after 28 days.

Unitex® Panel Patch is supplied in ready-to-use 8 kg bags. Wet render is prepared by mixing the bag contents with approximately 3 litres of clean water and drilling for homogeneity.

Coverage per bag is approximately 10 joining plate recesses.

Application Instructions

Substrates

Precast concrete panels, especially joining plate recesses.

Substrate condition



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Before application of any render, the masonry surface must be clean, dry, cured and free of any dust and debris. This means that any loose or damaged substrate must be removed, or repaired, and any moisture must also evaporate out prior to Unitex® Panel Patch being trowelled onto the substrate.

Ensure that the surface is clean and dry. All surfaces must be free of efflorescence, grease, oil, mould, dirt, dust, release agents, bond-breakers or other contaminants that may interfere with adhesion.

All substrates must be dry before render is applied and conversely, all render surfaces must be dry before being over-coated. Unitex recommends testing surface dryness with a Moisture Meter (such as Protimeter) where the WME (Wood Moisture Equivalent) must be lower than 15 %.

Note: A test area of the complete Unitex® system must always be provided by the applicator for the Builder and Specifier approval.

Always contact Unitex® for specific substrate specifications.

Site Preparation

It is important to ensure that, as well as the substrate being properly prepared, the work area is also made ready. This means masking and protective covering of windows, doors and adjoining surfaces to avoid marking the glass and frame surfaces with splatter. Drop sheets should also be used where required (tiles, pavers, downpipes, etc.).

Building regulations, if the scope of work invokes these, will require scaffolding to be erected by a qualified and certified operator. Equipment must be tagged and kept in good safe working order. Site and local handling of equipment regulations must be followed to provide a safe work environment.

Weather Conditions

If temperatures are less than 8 °C or greater than 30°C, Unitex® Panel Patch should not be applied to a wall.

Freshly applied Unitex® Panel Patch must be protected from rain, other sources of moisture and frosts for at least 48 hours.

Mixing

As a cement-containing blended powder, Unitex® Panel Patch must be thoroughly mixed with clean, potable water to a homogenous slurry prior to application. As the cement cures, the slurry will get thicker with time until it is no longer useable. The pot life is about 3 hours in ambient conditions.

Mechanical stirrers are recommended for mixing powder into water. Whilst the water content and flow of the slurry should vary slightly for different weather conditions (try for a little more water on days of higher temperatures), a good guide is to use 1 bag of Unitex® Panel Patch to 3 litres of water. Unitex® Panel Patch must always be mixed into water: not the other way around. Note that there is a useable application time (pot life) of about 3 hours before the slurry is no longer workable. Addition of too much water will result in shrinkage and cracking.

Application

Unitex® Panel Patch is a patching and filling compound that can be trowelled over damaged concrete and pre-cast concrete recesses up to 30 mm deep in a single coat. Floating in a smooth, circular motion is recommended for a smooth, hole-free continuous surface.

Unitex® Panel Patch will set at 20 °C as follows:

Initial - 180 minutes
Final - 300 minutes

After 28 days, the compressive strength is 20 mpa

Drying

In dry, mild conditions, Unitex® Panel Patch should be dry after 72 hours after application. With certain site conditions such as shaded areas, lower temperatures or high humidity, drying of the render may take longer, even up to 7-10 days. Being a cement-containing product, maximum physical strength will not be achieved until 4 weeks have passed.

Always check the weather forecast before applying renders to masonry surfaces as rain, especially within the first 8 hours after application, has a tendency to damage or weaken the render, or at best, leave water marks. Heavy rain at any time in the first 2-3 weeks may leave water marks on the surface. Should rain damage occur, the render integrity and adhesion must be checked.

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Manufacturer's Details

Company	Unitex Granular Marble Pty Ltd 22 Park Drive Dandenong, Vic. 3175 Australia
Telephone	+61 3 9768 4900
Telefax	+61 3 9768 4999
Website	www.unitex.com.au
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