

Unitex® Panel Patch

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.

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.

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 Sto 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 Areas:

Substrates

Precast concrete panels, especially joining plate recesses.

Substrate condition

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.

Both frosty conditions and excessively high temperatures should be avoided. Unitex recommends applying Unitex® Panel Patch in temperatures above 8 °C and less than 30 °C. 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 %.

Cleaning up

All of the equipment used to apply Unitex Renders, Textures and Paints are cleaned up with water and a little "elbow grease" immediately after use. Cleaning should only be carried out at the Builder's, or own, supplied environmental cleaning station where all waste water is captured for eventual removal to recycling stations.

Estimating

Supply
Unitex® Panel Patch
8 kg bag
60 bags per pallet

Coverage

Approximately 10 joining plate recesses per bag.

Shelf Life

This product contains cement and must be kept dry. A shelf life of 6 months is to be expected. Discard partly filled open bags within 2 weeks of use.

Safety:

See SDS

Unitex® Panel Patch is classified as hazardous according to the criteria of NOHSC.

The product contains Portland cement. Portland cement is classified as a Hazardous Substance, Non-Dangerous Goods according to the criteria of NOHSC. All other components are classified as Non Hazardous, Non Dangerous Goods.

Risk phrases for Portland cement are
R36/37/38 Irritating to eyes, respiratory system and skin
R40 Possible risk of irreversible effects
R43 May cause sensitization by skin contact
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
Safety Phrases for Portland cement
S22 Do not breathe dust
S24/25 Avoid contact with skin and eyes
S36/37 Wear suitable protective clothing and gloves.

The chemical composition of Portland cement is essentially oxides of various elements, the most prevalent being oxides of Calcium Ca, Silica Si, Aluminum Al, Iron Fe, Titanium Ti, Chromium Cr (mostly as insoluble Cr III but it is possible that water soluble Cr IV could be present at concentrations of less than 10 ppm). Trace amounts of oxides of Magnesium Mg, Potassium K and Phosphorus P may also be present. As cement is a blended product, crystalline silica at levels less than 0.1 % may be present.

Not classified as dangerous goods according to the Australian Code for Transport of Dangerous Goods.
NON DANGEROUS GOODS

Other Information:

This information contained herein relates only to the specific material identified.

Sto Australia believes that such information is accurate and reliable as of the date of this Technical Data Sheet, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability or completeness of the information.

Sto urges people receiving this information to make their own determination as to the information's suitability and completeness for their application.

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