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Technical Data Sheet

Unitex® Fast-R Render

Blended dry powder render for trowel-applied single coat over masonry surfaces.

Description

Unitex® Fast-R Render is a cement-based blended powder that when mixed thoroughly with water, can be trowel applied in thick or thin layers over masonry surfaces such as brick, block-work, stone and previously applied cement based renders.

For the discerning project managers, builders and applicators, Unitex® Fast-R Render assists your project as follows:

Offers greater efficiencies to applicators such as moving the scaffolding much less.

Trowels on easily in both thick and thin layers.

Most jobs need only one coat of Fast-R Render: you decide what the thickness should be.

Can be screeded to a smooth surface.

Improved workability and finishes off without holes or tearing.

Is polymer-modified for strong adhesion to masonry surfaces.

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

Is render machine pumpable.

After drying, can be overcoated with a tinted Unitex Applied Texture Finish.

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

Is manufactured by Unitex in Australia.

Uses

Unitex® Fast-R Render is a premium product specially formulated as a single coat applied by trowelling either thick or thin with optimum workability, ease of application and when finished off by floating or sponging, will close over readily without tearing. Uni-Cote Fast-R Render is suitable for covering all sound, dry masonry surfaces such as brick-work and concrete block-work, and performs the function of leveling and protecting masonry walls.

Unitex® Fast-R Render is cement based and polymer modified for strong adhesion to sound masonry surfaces. Unitex® Fast-R Render is applied directly onto clean, dust and debris free, dry and cured masonry surfaces by trowel and can be screeded if desired before being rubbed up to a true and even surface with a float. This product is workable at varying thicknesses from 4 to 10 mm. As thicker coatings can be applied in one coat and finished off very easily, applicators do not have to wait 3-7 days or more for a first coat of render to dry before applying a second coverage of render.

Unitex® Fast-R Render can be simply overcoated with any of the range of Unitex Applied Finishes such as factory tinted Uni-Trowel Décor 146, 155, 333 or 777 "wet" textures or Uni-Cote 846 or 855 dry powder textures. After the texture is dry, a suitable factory tinted topcoat such as Uni-PTC can be applied.

Unitex® Fast-R Render is supplied in ready-to-use 16 kg bags. Each bag allows up to 15 litres of wet render to be prepared by mixing the bag contents with approximately 4-5 litres of clean water and drilling for homogeneity.

Coverage per bag depends on the desired thickness of the render and at a low-build thickness of 4 mm., coverage of approximately 3-5 m² can be expected.

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Application Instructions**Substrates**

Masonry surfaces such as brickwork and concrete block-work .

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 patched and repaired, and any moisture must also evaporate out prior to Unitex® Fast-R Render 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.

Adequate expansion joints are required to minimize cracking on the surface of the render. Location of the expansion joints is the responsibility of the Builder or Head Contractor. Unitex® recommends expansion joints to every elevation and between different substrates to allow for building movements and stresses. If such expansion joints are not provided, cracking due to movement of the substrate may occur. This is in no way indicative of faulty material. Rather it indicates sub-standard building practice.

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.

Weather Conditions

If temperatures are less than 8 °C or greater than 30°C, Unitex® Fast-R Render should not be applied to a wall.

Freshly applied Unitex® Fast-R Render must be protected from rain, other sources of moisture and frosts for at least 48 hours.

Mixing

As a cement-containing blended powder, Unitex® Fast-R Render 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 3 volumes of Unitex® Fast-R Render to one volume of water, that is, use approx. 4.5 litres of water to 1 bag of render. Unitex® Fast-R Render 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

Compared with conventional renders, Unitex® Fast-R Render can be trowelled over masonry surfaces in a single coat at thicknesses up to 5 mm without sagging. This same product can also be trowelled at lower thicknesses of 2-3 mm with adequate coverage so Unitex® Fast-R Render is a versatile render. Floating in a smooth, circular motion is recommended for a smooth, hole-free continuous surface.

Unitex® Fast-R Render is also suitable for spraying by pumpable render machines and can be screeded to a smooth, level surface.

Unitex® Fast-R Render is not suitable as a render for use on expanded polystyrene sheets: for this we recommend Unitex Polymer Render on uncoated EPS board or a choice of Unitex® Base Board Render or the lightweight product Unitex® "BBR 8.5 kg" on our factory coated Uni-Base Board EPS board. Unitex® "BBR 8.5 kg" can be trowelled in a single application at 6-8 mm thickness to achieve a Bushfire Attack Level of BAL-29 and at 12-14 mm thickness for BAL-40 (see Unitex meets BAL tests brochure).



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Unitex® Fast-R Render is an essential part of a wall protection system. Because of its thickness and cement-like behavior, it provides stability and physical protection (from impacts by foreign bodies, etc.) to a wall. To complete the protection package for weather, moisture and solar protection, and to provide a decorative effect, the render must be coated with a Unitex® Applied Finish such as Unitex® Décor Trowel 146, 155, 333, 500 or 777 texture finishes or with Unitex® Dry Cote 846 or 855 powdered texture finishes. The Décor Trowel texture finishes can be factory tinted by Unitex® to your choice of colour. For extra weather protection or for providing a decorative effect when using Dry Cote texture finishes, a tinted top coat such as Uni-PTC® or thicker Unitex® Membrane can be brushed or rolled over the texture finishes to complete the protection package for your walls.

Drying

In dry, mild conditions, Unitex® Fast-R Render 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, and any necessary repairs carried out and then allowed to fully dry prior to allowing Unitex® Fast-R Render to be overcoated.

Both frosty conditions and excessively high temperatures should be avoided. Unitex recommends applying Unitex® Fast-R Render in temperatures above 8 °C and less than 30 °C. Should hot and windy conditions be encountered after commencing rendering, dampen the substrate with water. Do not apply render until the “wet” look has receded and the surface has absorbed the free water. This will enable Unitex® Fast-R Render to remain as workable as it is in milder conditions.

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 %.

Estimating

Supply

Unitex® Fast-R Render	16 kg bag
	60 bags per pallet

Coverage

Approximately 3-5 m² at 4 mm thickness.

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.

Product Safety

See MSDS

Unitex® Fast-R Render 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 |
|-----|---------------------|

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S24/25
S36/37

Avoid contact with skin and eyes
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, aluminium 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

Manufacturer's Details

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Date issued	01 November 2013

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