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Technical Data Sheet

Unitex® Redi Render

Blended dry powder render for trowel-applied one or two coat applications over new and old brick as well as cement block.

Description

Unitex® Redi Render is a cement-based blended powder that when mixed thoroughly with water, can be trowel applied in typical thicknesses of 2-4 mm over masonry surfaces such as new and old bricks and concrete block-work.

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

Trowels on easily and smoothly in thin layers.

Is polymer-modified for strong adhesion to masonry surfaces.

Is more waterproof than conventional render.

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

Is ideal for renovation works or over new surfaces.

Consistent quality.

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® Redi Render is trowel applied and suitable for a one coat or two coat application on all suitable masonry surfaces, e.g. brick or block, etc. both inside and out, and is recommended to aid in the protection of masonry walls from the damaging effect of surface ingress of moisture. If the surface is in good order, only a skim coat is required.

Unitex® Redi Render is cement based and polymer modified for water resistance and strong adhesion to sound masonry surfaces. Unitex® Redi Render is applied either mechanically sprayed or trowelled and then rubbed up to a true and even surface with a float. This product is workable at thicknesses up to approximately 4 mm.

Unitex® Redi Render enhances the appearance of masonry surfaces and may be sponge finished for a concrete "olde worlde" sandy surface effect or, more likely, is overcoated with 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 for added protection against weather effects.

Unitex® Redi Render is supplied in ready-to-use 20 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 2-3 mm., coverage of approximately 3-5 m² can be expected.

Application Instructions

Substrates

Masonry surfaces such as new or old brickwork and concrete block-work .

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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® Redi 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. Pre-painted substrates must be wire brushed back to the bare substrate.

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® Redi Render should not be applied to a wall.

Freshly applied Unitex® Redi 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® Redi 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® Redi Render to one volume of water, that is, use approx. 4.5 litres of water to 1 bag of render. Unitex® Redi 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

Unitex® Redi Render is a low-build render that can be trowelled over masonry surfaces in single coat or two coat thicknesses up to 4 mm with each application. Floating in a smooth, circular motion is recommended for a smooth, hole-free continuous surface.

Unitex® Redi Render is also suitable for spraying by pumpable render machines.

Unitex® Redi 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).

Drying

In dry, mild conditions, Unitex® Redi 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® Redi Render to be overcoated.

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Both frosty conditions and excessively high temperatures should be avoided. Unitex recommends applying Unitex® Redi 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® Redi Render to remain as workable as it is in milder conditions.

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Estimating

Supply

Unitex® Redi Render 20 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® Redi 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
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, 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



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Date issued 01 November 2013

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