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## Technical Data Sheet

### Unitex® HiLite Render

Blended dry powder render for pumpable spray machine or trowel-applied one or two coat applications over new and old brick as well as cement block and is especially suited for use over rough brickwork or filling rake joints with thicker layers of render.

#### Description

Unitex® HiLite 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® HiLite Render assists your project as follows:

Ideal for uneven masonry surfaces.

Trowels on easily, smoothly in thick layers.

High build in a single pass.

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® HiLite Render is a trowel applied or spray machine applied high-build, light weight render, 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. Due to its light weight, high build can be achieved, even over difficult and uneven masonry surfaces.

Unitex® HiLite Render is cement based and polymer modified for water resistance and strong adhesion to sound masonry surfaces. Unitex® HiLite 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 from 6 mm to approximately 15 mm. Layers of 30 mm may be achieved with successive coats of 15 mm build up. A minimum curing time of 24 hours between coats is required.

Unitex® HiLite Render is ideal for building up rough brickwork or filling of rake joints where a skim coat is not suitable.

To complete the finishing system, Unitex® HiLite Render 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. Drying times between coats (see later) must be observed.

Unitex® HiLite Render is supplied in ready-to-use 14 kg bags. Each bag allows up to 15 litres of wet render to be prepared by mixing the bag contents with approximately 3 litres of clean water and drilling for homogeneity.

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Coverage per bag depends on the desired thickness of the render and at the minimum recommended 6 mm thickness, coverage of approximately 2-4 m<sup>2</sup> can be expected.

**Application Instructions****Substrates**

Masonry surfaces such as new or old 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® HiLite 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® HiLite Render should not be applied to a wall.

Freshly applied Unitex® HiLite 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® HiLite 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® HiLite Render to one volume of water, that is, use approx. 3 litres of water to 1 bag of render. Unitex® HiLite 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® HiLite Render is a light weight high-build render that can be sprayed by pumpable render machines onto rough brickwork or trowelled over masonry surfaces in a single coat up to 15 mm. With two coats, thicknesses up to 30 mm can be achieved. A minimum curing time of 24 hours between coats is required. Floating in a smooth, circular motion is recommended for a smooth, hole-free continuous surface.

Unitex® HiLite 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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### Drying

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

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

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### Estimating

#### Supply

Unitex® HiLite Render                      14 kg bag  
    60 bags per pallet

#### Coverage

Approximately 2-4 m<sup>2</sup> at 6 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® HiLite 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.



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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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