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Technical Data Sheet

Unitex® DryPoly Render

Blended dry powder polymer modified cement based render for thin trowel-applied one coat applications with the highest adhesion and flexibility that Unitex® offers with dry powder renders. Unitex® DryPoly Render is recommended for covering new and old brickwork, rough concrete, bare Expanded PolyStyrene (EPS) wall cladding boards and Fibrous Cement Sheeting (FRC) as a filling and levelling compound.

Description

Unitex® DryPoly Render is a cement-based blended powder that when mixed thoroughly with water, can be trowel applied in typical thicknesses up to 3 mm over masonry surfaces such as new and old bricks and concrete block-work and more difficult substrates such as bare or coated EPS boards and FRC sheets.

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

Trowels on easily and smoothly in thin layers.

Is the strongest adhering polymer-modified cement based render in the Unitex® range.

Is more waterproof than conventional render.

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

Is ideal for patching, leveling, skim coating and restoration of damaged 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® DryPoly Render is a trowel applied filling and leveling compound suitable for application on dry, non-porous and difficult substrates. Unitex® DryPoly Render is also used for patching, leveling, skim coating and restoration of damaged surfaces. Unitex® DryPoly Render is the strongest adhering dry powder render from the Unitex® range of specialty render products.

Unitex® DryPoly Render is designed for use over FRC sheeting as a levelling preparation skim coat and is trowel applied prior to overcoating with Texture from the Unitex® Applied Finishes range. As a blended cement based powder, the product must be mixed with water and mechanically stirred with a drill until the desired consistency of slurry has been achieved (see later). With a trowel, the slurry must be applied and trowel finished with speed as this type of render dries from the surface first. Unitex® DryPoly Render is recommended in coatings of 3-5 mm thickness as any higher builds are difficult both to apply and to dry.

Unitex® DryPoly Render is designed to be 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® DryPoly Render is supplied in ready-to-use 19 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 8-10 m² can be expected.

TECHNICAL DATA SHEET

CLADDING | RENDERS | TEXTURES | MOULDINGS + COLUMNS | ACCESSORIES

Unitex Granular Marble Pty Ltd ACN 005 995 611 ABN 42 087 324 477

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Application Instructions

Substrates

Masonry surfaces such as new or old brickwork, concrete block-work, bare EPS wall cladding boards and factory coated Uni-Base Board wall cladding boards, and Fibrous Reinforced Cement (FRC) sheets. .

Substrate condition

Before application of any render, the substrate 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® DryPoly 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® DryPoly Render should not be applied to a wall.

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

Apply the mixed Unitex® DryPoly Render to the sheet gaps and embed the pre-cut 50 mm alkali resistant Uni-Mesh along the sheet gaps.

Skim coat with Unitex® DryPoly Render over the whole FRC sheet surface with a steel or perspex trowel to a depth of approximately 2-3 mm. If studs behind the sheets are uneven then use Unitex® DryPoly Render a little thicker to feather out the worst of the unevenness.

When Unitex® DryPoly Render is through dry and cured for a minimum of 48 hours (in temperate conditions), overcoat with any of the Unitex Applied Finishes.

The system requires a coating of Uni-Flex Membrane or 2 coats of Uni-PTC® to be roller coated to provide protection against solar and weather effects.

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Drying

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

Both frosty conditions and excessively high temperatures should be avoided. Unitex recommends applying Unitex® DryPoly 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® DryPoly 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® DryPoly Render 19 kg bag
 60 bags per pallet

Coverage

Approximately 8-10 m² at 3 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® DryPoly 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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