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Technical Data Sheet

Unitex® Base Board Render

Blended dry powder render for trowel application on both factory coated and applicator prepared Expanded PolyStyrene (EPS) cladding boards. Unitex® Base Board Render is NOT SUITABLE for direct application onto bare EPS cladding boards.

Description

Unitex® Base Board Render is a cement-based blended powder that when mixed thoroughly with water, can be trowel applied in typical thicknesses of 4-10 mm over factory coated and applicator prepared Expanded PolyStyrene (EPS) cladding boards.

For project managers, builders and applicators, Unitex® Base Board Render assists your project as follows:

Provides a high build thickness of render to EPS cladding and thus fulfills a leveling and straightening function needed for a true and level wall.

Provides a high build thickness of render to EPS cladding and thus provides structural stability, impact resistance and protection against weather effects, including rain and wind, that is expected from exterior walls of homes and buildings.

Trowels on easily and smoothly in both thin and thick layers.

Is a polymer-modified cement based render that adheres strongly with cement-modified polymer-based renders such as Unitex® Polymer Render that adhere directly onto bare EPS cladding boards and also to factory coated Uni-Base Board EPS cladding boards..

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.

Is an integral component of the Unitex® Base Board System of EPS cladding that is BRANZ Approved and complies with CodeMark. However, for applications where upper level Bushfire Attack Levels are required, Unitex recommends the lightweight product, Unitex® "BBR 8.5 kg" to be used instead of Unitex® Base Board Render.

Uses

Unitex® Base Board Render is specially formulated to strongly adhere to applicator prepared EPS board cladding, or to pre-coated Uni-Base Board EPS board cladding. Prior to applying Unitex® Base Board Render, the applicator must prepare bare EPS board by meshing the surface with alkali resistant coated glass fibre mesh and coating with 2-3 mm Unitex® Polymer Render (with 5-10 % added cement). Otherwise, Unitex® meshes and coats EPS boards in a factory controlled process and makes this product available to builders as Uni-Base Board which is available in thicknesses of 50, 75 and 100 mm of EPS.

Together with a number of Unitex® components, Unitex® Base Board Render is an integral part of the Unitex® Base Board System for EPS wall cladding applications. The Unitex® Base Board System is BRANZ Appraised, conforms with CodeMark and has a BRAC Certificate which means that recognized independent authorities attest that the product system complies with the Performance Requirements of the Building Code of Australia.

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Unitex® Base Board Render is cement based and polymer modified for water resistance and strong adhesion. The product is trowel applied and suitable for a one coat or two coat application on Uni-Base Board EPS cladding. A minimum curing time of 24 hours between coats is required. The product is workable at thicknesses of approximately 4-10 mm.

To complete the finishing system, Unitex® Base Board 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 of at least 72 hours must be observed.

Unitex® Base Board 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 the minimum recommended 4 mm thickness, coverage of approximately 2-5 m² can be expected.

Application Instructions

Substrates

Applied to already coated and meshed Expanded Polystyrene and especially the Unitex® factory coated product, Uni Base Board.

Substrate condition

Before application of any render, the 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, prior to application of the base render. 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® Base Board Render should not be applied to a wall.

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

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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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