

Unitex® BBR 8.5 Render

Description:

Unitex® BBR 8.5 kg Render is a cement-based blended light weight powder that when mixed thoroughly with water, can be trowel applied in typical thicknesses of 6-16 mm over factory coated and applicator prepared Expanded PolyStyrene (EPS) cladding boards.

For project managers, builders and applicators, Unitex® BBR 8.5 kg Render assists your project as follows:

Is less than half the density of Unitex® Base Board Render and can be applied in a single pass to double the thickness of Unitex Base Board Render without sagging.

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 an exceptionally high build thickness of render to EPS cladding and thus provides structural stability, impact resistance and protection against bushfire fronts and weather effects, including rain and wind. These properties are the Performance Requirements that are expected from exterior walls of homes and buildings.

Trowels on easily and smoothly in thick layers.

Is a polymer-modified cement based render that adheres strongly with cement-modified polymer-based renders such as Unitex® Polymer Render as used directly onto bare EPS cladding boards and also onto 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.

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 an integral component of the Unitex® Base Board System of EPS cladding that is BRANZ Approved and complies with CodeMark.

Blended dry powder render for trowel application on both factory coated and applicator prepared Expanded PolyStyrene (EPS) cladding boards. Unitex® BBR 8.5 kg Render is NOT SUITABLE for direct application onto bare EPS cladding boards.

For applications where upper level Bushfire Attack Levels e.g. BAL-19.5, BAL-29 and BAL-40, are required, Unitex recommends the lightweight product, Unitex® "BBR 8.5 kg" to be used. Independent testing authorities have confirmed that with the recommended thickness of 6-8 mm of Unitex® BBR 8.5 mm Render in the Unitex Base Board System, the Performance Requirements for BAL-29 can be achieved and with 12-14 mm Unitex® BBR 8.5 kg Render, BAL-40 was successfully achieved. See Unitex brochures for details on achieving upper level BAL ratings for your home and buildings.

Is manufactured by Sto in Australia.

Uses:

Unitex® BBR 8.5 kg Render is specially formulated as a light weight render to strongly adhere to applicator prepared EPS board cladding, or to pre-coated Uni-Base Board EPS board cladding. Prior to applying Unitex® BBR 8.5 kg 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). For better, more consistent results, Unitex® meshes and coats EPS boards in a factory controlled process and makes this product available to builders as Uni-Base Board in thicknesses of 50, 75 and 100 mm of EPS.

Together with a number of Unitex® components, Unitex® BBR 8.5 kg 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. Bushfire Attack Levels of BAL-29 and BAL-40 that conform with Australian Standard AS 1530.8.1-2007 are achievable with Unitex Base Board System EPS cladding containing Unitex® BBR 8.5 kg Render at thicknesses of 6-8 mm and 12-14 mm respectively. These render thicknesses are achieved in a single pass application with Unitex® BBR 8.5 kg Render and this saves the applicator several days of drying time.

Unitex® BBR 8.5 kg Render is cement based and polymer modified for water resistance and strong adhesion. The product is trowel applied and suitable for a thick one coat application on Uni-Base Board EPS cladding. The product is workable at thicknesses of approximately 6-16 mm.

To complete the finishing system, Unitex® BBR 8.5 kg 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® BBR 8.5 kg Render is supplied in ready-to-use 8.5 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 6 mm thickness, coverage of approximately 2-3 m² can be expected.

Application Areas:

Substrates

Unitex® BBR 8.5 kg Render is applied to already coated and meshed Expanded Polystyrene wall cladding boards 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 Sto® for specific substrate specifications.

Site Preparation

It is important to ensure that, as well as the substrate being properly prepared, the work area is also made ready. This means masking and protective covering of windows, doors and adjoining surfaces to avoid marking the glass and frame surfaces with splatter. Drop sheets should also be used where required (tiles, pavers, downpipes, etc.).

Building regulations, if the scope of work invokes these, will require scaffolding to be erected by a qualified and certified operator. Equipment must be tagged and kept in good safe working order. Site and local handling of equipment regulations must be followed to provide a safe work environment.

Weather conditions

If temperatures are less than 8 °C or greater than 30°C, Unitex® BBR 8.5 kg Render should not be applied to a wall.

Freshly applied Unitex® BBR 8.5 kg 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® BBR 8.5 kg 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® BBR 8.5 kg Render to one volume of water, that is, use approx. 4.5 litres of water to 1 bag of render. Unitex® BBR 8.5 kg 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® BBR 8.5 kg Render is trowel applied at thicknesses of 6-16 mm. Floating in a smooth, circular motion is recommended for a smooth, hole-free continuous surface.

Drying

In dry, mild conditions, Unitex® BBR 8.5 kg 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® BBR 8.5 kg Render to be overcoated.

Both frosty conditions and excessively high temperatures should be avoided. Unitex recommends applying Unitex® BBR 8.5 kg 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® BBR 8.5 kg Render to remain as workable as it is in milder conditions.

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Cleaning up

All of the equipment used to apply Unitex Renders, Textures and Paints are cleaned up with water and a little "elbow grease" immediately after use. Cleaning should only be carried out at the Builder's, or own, supplied environmental cleaning station where all waste water is captured for eventual removal to recycling stations.

Estimating

Supply

Unitex® Beach Render
8.5 kg bag
60 bags per pallet

Coverage

Approximately 2-3 m² 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.

Safety:

See SDS

Unitex® BBR 8.5 kg 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

Other Information:

This information contained herein relates only to the specific material identified.

Sto Australia believes that such information is accurate and reliable as of the date of this Technical Data Sheet, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability or completeness of the information.

Sto urges people receiving this information to make their own determination as to the information's suitability and completeness for their application.

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