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Technical Data Sheet

Unitex® Aero Render for AAC

Designed for excellent float levelling for the professional applicator, Aero Render stays open for longer – engineered especially for AAC applications.

Blended dry powder Base-Coat Render for trowel-applied single coat over AAC masonry surfaces.

Description

Unitex® Aero Render is a cement-based blended powder that when drill mixed thoroughly with water, can be trowel applied in thick or thin layers over masonry surfaces such as brick, block-work, stone and previously applied cement based renders.

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

Offers greater speed efficiencies to applicators.

Trowels on easily in both thick (4-6mm) and thin (2-4mm) layers.

Most jobs need only one coat of Aero Render: you decide what the thickness should be.

Can be screeded to a level surface.

Improved workability and finishes well off the trowel.

Is polymer-modified for strong adhesion to prepared AAC masonry surfaces.

Easily mixed. Just add 4.5l water and drill mix to your preferred consistency.

Is render machine pumpable.

After drying, can be overcoated with a colour tinted Unitex Applied Texture Finish from pail (wet on dry substrate). Over coating with Dry Powder product, such as Unitex Redi-Texture (available in sacks) can be done on the same day if rendered surface is surface dry (still curing – dry texture on damp substrate).

Is readily available in paper sacks individually or on 60 sack pallets.

Is manufactured by Unitex in Australia. Unitex offers the full AAC specified system of primer (when required), Render Base Coat, Texture Finish, Surface PTC (Protective Top Coat), and surface water pearling clear coats (DrySeal)

Uses

Unitex® Aero Render is a premium product specially formulated as a single coat applied by trowelling either thick or thin with optimum workability, ease of application and when finished off by floating or sponging, will close over readily without tearing. Uni-Cote Aero Render is suitable for covering all sound, dry masonry surfaces such as AAC and brick-work and concrete block-work, and performs the function of leveling and protecting masonry walls.

Unitex® Aero Render is cement based and polymer modified for strong adhesion to sound masonry surfaces. Unitex® Aero Render is applied directly onto clean, dust and debris free, dry and cured masonry surfaces by trowel and can be screeded if desired before being rubbed up to a true and even surface with a float. This product is workable at varying thicknesses from 4 to 10 mm. As thicker coatings can be applied in one coat and finished off very easily, applicators do not have to wait 3-7 days or more for a first coat of render to dry before applying a second coverage of render.

Unitex® Aero Render can be simply overcoated with any of the range of Unitex Applied Finishes such as factory tinted Uni-Trowel Décor 888, 146, 155, 333 or 777 “wet” textures or Tanami, Uni-Rock or Uni-Cote Redi-Texture, 846, and 855 dry powder textures. After the texture is dry, a suitable factory tinted topcoat such as Uni-PTC can be applied. DrySeal surface water pearling penetrating sealer is a great match for the Unitex AAC coating system over the Redi-Texture.



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Unitex® Aero 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 4 mm., coverage of approximately 2-5 m² can be expected.

Application Instructions

Substrates

Masonry surfaces such as AAC Panel, brickwork and concrete block-work .

Substrate condition

Before application of any render, the AAC 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® Aero Render being trowelled onto the substrate.

Ensure that the surface is clean and dry, however AAC can be dampened (not wet) on warm days to reduce suction and increase adhesion just prior to rendering. 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 regular expansion joints to every elevation and between different substrates to allow for building movements and stresses. It is always best to have more, rather than less, expansion joints. 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. Dry AAC can be dampened on warm, windy days just prior to application to reduce suction and improve adhesion.

Always contact Unitex® for specific non-standard substrate specifications. Such Unitex recommended Specifications must be in writing.

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 and waste treatment 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® Aero Render should not be applied to a wall.

Freshly applied Unitex® Aero Render must be protected from rain, other sources of moisture and frosts until dry (15% WME) and through-cured or for at least 72 hours in standard conditions of 25c @ 50% rel humidity.

Mixing

As a cement-containing blended powder, Unitex® Aero 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 2-3 hours in ambient conditions.

Mechanical stirrers are essential for homogeneous 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® Aero Render to one volume of water, that is, use approx. 4.5 litres of water to 1 bag of render. Unitex®



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Aero 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.

General Application Steps:

1. Primer
2. Leveling Render
3. Surface Applied Texture Coating
4. P.T.C or DrySeal

Application

Compared with conventional renders, Unitex® Aero Render can be trowelled over masonry surfaces in a single coat at thicknesses up to 5 mm without sagging. This same product can also be trowelled at lower thicknesses of 2-3 mm with adequate coverage so Unitex® Aero Render is a versatile render. Floating in a smooth, circular motion is recommended for a smooth, hole-free continuous surface.

Unitex® Aero Render is also suitable for spraying by pumpable render machines and can be screeded to an even, level surface.

Unitex® Aero 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 Application Manual & Technical Manual).

Unitex® Aero Render is an essential part of a wall protection system. Because of its thickness and cement-like behavior, it provides stability and physical protection (from impacts by foreign bodies, etc.) to a wall. To complete the protection package for weather, moisture and solar protection, and to provide a decorative effect, the render must be coated with a Unitex® Applied Finish such as Unitex® Décor Trowel family of texture finishes or with the Unitex® Dry Cote powdered texture range. The Décor Trowel texture finishes can be factory tinted by Unitex® to your choice of colour. For extra weather protection or for providing a decorative effect when using Dry Cote texture finishes, a tinted top coat such as Uni-PTC® or thicker Unitex® Membrane can be brushed or rolled over the texture finishes to complete the protection package for your walls.

Drying (25C @ 50% rel humidity)

In dry, mild conditions, Unitex® Aero 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. In thick coat applications always check that the render is fully cured internally as this may take all of the 4 weeks to dry.

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® Aero Render to be overcoated.

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

All substrates must be dry (AAC can be moistened on hot/windy days to lessen suction and enhance adhesion) 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 %.

Cleaning up



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Date issued 14/06/2018

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