

Unitex® Aero Render

Description:

Unitex® Uni-Dry Cote® Aero Render is a premium product specially formulated to be applied as a single coat over AAC Panels with optimum workability, ease of application and long open time, so easy that you can relax as you work, and able to close over readily when floated.

Uni-Dry Cote® Aero Render is suitable for covering all sound AAC Panels, and can also be used over dry masonry surfaces such as brickwork and concrete blockwork.

It performs the function of leveling and protecting AAC Panel and masonry walls.

Premium render that offers greater efficiencies to applicators such as moving the scaffolding much less.

Trowels on easily.

Long open time.

Improved workability and finishes off without holes or tearing.

Is polymer-modified for strong adhesion to masonry surfaces.

Just Add Water – less margin for errors.

Is render machine pumpable.

After drying can be overcoated with Unitex Applied Textures.

Consistent quality.

Unitex® Uni-Dry Cote® Aero Render can be simply overcoated with any of the range of Unitex Applied Finishes coating systems such as factory tinted Uni-Trowel Décor 888 liquid texture or neutral Uni-Cote® 855 blended dry powder texture and after the texture coat is dry, a suitable factory tinted topcoat such as Uni-PTC can be applied.

Is manufactured by Sto in Australia.

Uses:

Unitex® Uni-Dry Cote® Aero Render is cement based and polymer modified for strong adhesion to sound AAC Panel surfaces.

Uni-Dry Cote® Aero Render is applied directly onto clean, dust and debris-free, dry and cured AAC Panel surfaces by trowel before being rubbed up to a true and even surface with a float. This product is workable at varying thicknesses from 2 to 4 mm. Minimum 72 hours after application, and ensure fully cured (12% WME or less) before overcoated

To complete the finishing system, Unitex® Uni-Dry Cote® Aero Render is overcoated with Unitex Applied Finishes such as factory tinted UniTrowel 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® Uni-Dry Cote® 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 low build thicknesses of 2-4 mm covers approx. 4-7 m².

Application Areas:

Substrates

AAC Panels, New Bricks, Old Bricks, Cement Block.

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 and any moisture must also evaporate out prior to application of Uni-Dry Cote® Aero Render.

The substrate surface must also be cleaned free of any grease, oils, scaling laitance, efflorescence, form-oil compounds, mould, fungi, rust, dirt, dust or any other foreign matter. Pre-painted surfaces must be either tested for adhesion or wire-brushed back to the bare substrate. Some difficult surfaces may require a render pre-treatment.

It is the responsibility of the Builder or Head Contractor to make good any substrate to be acceptable before the next coat is applied. If in doubt, contact Unitex for advice and a site inspection visit by a Technical Sales Representative.

Adequate expansion joints are required to minimise cracking on the surface of the render. Location of the expansion joints is also the responsibility of the Builder or Head Contractor. Unitex recommends regular expansion joints to every elevation, between different substrates and between floor levels, to allow for building movements.

If such expansion joints are not provided by the Builder or Head Contractor, 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.

Sto 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.

Weather conditions

If temperatures are less than 8 °C or greater than 30°C, Uni-Dry Cote® Aero Render should not be applied to a wall.

Freshly applied Uni-Dry Cote® Aero 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® Uni-Dry Cote® 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 3 hours in ambient conditions. Mechanical stirrers are recommended for mixing powder into water.

The recommended starting point is to add approx. 25% by volume (based on the amount of powder render to be used), of water into a clean container (approx 4 litres per bag).

Then slowly add the powder, with drill mixing, until the desired slump (lump-free consistency) is achieved with vigorous drill mixing to ensure a lump free render of required slump.

The mix can be later water thinned to required viscosity.

Ensure wall surface is stable, clean, dry and free of dust, etc., prior to application.

For difficult masonry and non-masonry surfaces contact Unitex for product and surface preparation advice.

Unitex® Uni-Dry Cote® 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.

Application

Uni-Dry Cote® Aero Render is applied directly onto clean, dust and debris-free, dry and cured AAC Panel surfaces by trowel before being rubbed up to a true and even surface with a float.

This product is workable at varying thicknesses from 2 to 4 mm.

Drying

In dry, mild conditions, Uni-Dry Cote® Aero Render should be dry after 72 hours after application.

When dry, Uni-Dry Cote® Aero Render can be overcoated with a texture from the Unitex Applied Finishes range. With certain site conditions such as shaded areas, lower temperatures or high humidity, curing of the render may take longer, even up to 7-10 days.

Prior to overcoating with Unitex texture, base coat must achieve a minimum of 12% WME.

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 and weaken the render or at best, leave water marks. Heavy rain at any time during the initial 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 Uni-Dry Cote® Aero Render to be overcoated.

Both frosty conditions and excessively high temperatures should be avoided. Unitex recommends applying Uni-Dry Cote® Aero Render in temperatures greater than 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 Uni-Dry Cote® Aero Render to remain as workable as it is in milder conditions.

This will enable Unitex® Uni-Dry Cote® Aero 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. Sto recommends testing surface dryness with a Moisture Meter (such as Protimeter) where the WME (Wood Moisture Equivalent) must be lower than 15 %.

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

Uni-Dry Cote® Aero Render:

20 kg bag

60 bags per pallet

Coverage

Approximately 4-7 m² at 2-4mm 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

Uni-Dry Cote® Aero 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, aluminum 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.

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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Date Issue: 05.05.2026