

RSA LITEPAK RENDER

Technical Data Sheet

October 2022

PRODUCT DESCRIPTION

RSA LitePak Render is a cement based combined dry powder render for pumpable spray machines or trowel applications of one or two coats over new and old brick, cement block, rough brickwork or for filling in rake joins with thicker layers of render. RSA LitePak Render is also an excellent choice for “packing out” slab edges. When mixed with water, RSA LitePak Render can be trowelled in layers of up to 15mm over concrete blockwork and new and old brickwork. RSA LitePak Render is supplied in 22kg bags which makes up to 23.5 litres of wet render with the addition of 4 litres of water.

FEATURES AND BENEFITS

- Ideal for packing out and for uneven masonry surfaces
- Can be trowelled on in smooth, thick layers
- Polymer modified for excellent bond to masonry surfaces
- Achieves a high build in a single pass
- Easily mixed to preferred consistency
- Simple to use – just add water
- Ideal for use on existing and new works alike
- Can be coated with a tinted RSA texture system
- Dependable and constant quality product

TYPICAL USES

RSA LitePak Render is a light-weight high build render product for application on masonry surfaces. Suitable for one or two coat applications over brick, block or AAC substrates. RSA LitePak Render achieves excellent results over difficult and uneven masonry surfaces. It can also be successfully used as a pack out product on the base of buildings to even up the gaps between substrate and slab in addition to building up rough brickwork or filling of rake joins where a skim coat is not suitable.

RSA LitePak Render is workable at thicknesses from 6mm to approximately 15mm with layers of 30mm being able to be accomplished with successive coats of 15mm build up. A minimum drying time of 24 hours between coats is required.

SUITABLE SUBSTRATES

When applied in accordance with the most recent RSA written information, RSA LitePak Render is suitable for use over a range of correctly prepared substrates including;

- Bricks
- AAC
- Concrete blocks
- Concrete slab edges
- Off form concrete
- Concrete tilt panels
- Cement Render

Note: RSA LitePak Render maybe applied to these correctly prepared substrates as a base coat and as part of a system combined with other RSA products & specifications. Refer to substrate specific application guidelines for further information.

THEORETICAL COVERAGE

Applied at 6mm thick (single coat), one bag of RSA LitePak Render will cover approximately 2-4m².

Note: The theoretical coverage is based on a true flat substrate that has no recesses or voids with minimum suction (porosity) and depends on application techniques.

PREPARATION

Cleaning: Ensure all surfaces to be coated are sound, clean, dry, free from dust, oil, release agents, loose material, efflorescence and/or other contaminants. Remove all mortar dags and protrusions and either brush down with a stiff broom or wash/pressure clean substrate as required, prior to the application of any products.

SUBSTRATE CONDITION, PREPARATION AND HYDRATION

It is absolutely critical to correctly seal or hydrate all masonry surfaces prior to the application of RSA LitePak Render, as this limits water loss from the render to the substrate. In turn, it also keeps the water in the freshly applied render (reducing the likelihood of “plastic shrinkage cracking”) and eliminates the need to cure the render after application.

Pre-painted substrates must be wire brushed back to the bare substrate.

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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. Render Systems Australia 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.

Sealing: Highly absorbent and low porosity substrates such as AAC, off form concrete & concrete tilt panels should be sealed with a 1:1 mix of RSA Render Bond and water or a primer such as RSA Multiprime. Best results are achieved when the sealer is applied at least 24 hours prior to the render application.

Hydration of Absorbent Dry Masonry: The masonry substrate may be sealed as above, or alternatively it must be soaked/'hydrated' with clean water until the water beads and runs off the surface before application of RSA renders. Application of RSA LitePak Render can be applied onto the base render generally after 24 hours. The render should be wet to assist with adhesion and hydration and RSA LitePak Render applied when the render surface sheen has receded.

Masking: For all surfaces not to be coated (windows, doors, roofs, finished floors) we recommend masking, covering or otherwise protecting the surface prior to any application.

MIXING RSA LITEPAK RENDER

- 1 Mix with clean, potable water only to achieve a smooth slurry prior to application. As the cement cures the slurry will thicken up until it is no longer useable.
- 2 Slowly add RSA LitePak Render to approximately 4 litres of clean potable water whilst vigorously stirring with a suitable mechanical mixer. Slightly more water can be used on hotter days to account for higher temperatures. Do not add too much water otherwise this will result in product shrinkage and cracking.
- 3 Mix RSA LitePak Render for at least three minutes to activate additives.
- 4 Allow RSA LitePak Render to stand for a minimum of five minutes to ensure that the chemical reaction of additives occurs.
- 5 Remix RSA LitePak Render for one minute whilst adjusting consistency with the addition of water or render as required.

Pot life: The pot life of mixed RSA LitePak Render when left in the shade is approximately 3 hours.

APPLICATION GUIDE

RSA LitePak Render is a high building lightweight render that can be sprayed by pumpable render machines onto rough brickwork or trowelled over masonry surfaces in a single coat up to 15mm in depth. 30mm depth can be achieved with two coats as long as drying time between coats of 24 hours is observed. Floating in a smooth, circular motion is recommended for an even, divot free surface.

DRYING

RSA LitePak Render should be dry in approximately 72 hours after application depending on weather. With certain site conditions such as shaded areas, lower temperatures or high humidity, drying of the render may take longer, up to 7-10 days. Being a cement-containing product, maximum physical strength will not be achieved until 4 weeks.

LIMITATIONS

The product will not remedy poor quality substrate installations. RSA LitePak Render is not a substitute for good solid plastering trade practices. It is the plasterer's responsibility to assess each project to determine 'best practice'.

PRECAUTIONS

Always check the weather forecast before applying render as rain, especially within the first 8 hours after application, has a tendency to damage or weaken the render, or 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 RSA LitePak Render to be overcoated.

Both frosty conditions and excessively high temperatures should be avoided. We recommend applying RSA LitePak 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 the product 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. We recommend testing surface dryness with a Moisture Meter where the WME (Wood Moisture Equivalent) must be lower than 15 %.

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CLEAN UP

Clean all equipment immediately with water if render has not cured. Any spatter on adjacent surfaces should be removed before the product has cured.

Warm water and detergent can be used to remove material which has recently dried.

STORAGE

RSA LitePak Render should be stored in a cool dry environment on a timber pallet base. Avoid storing in areas of high humidity or excess moisture as this may affect the contents and shorten shelf-life. The product has a shelf life of up to 12 months when stored correctly. Discard partly filled open bags within 2 weeks of use.

PRODUCT SAFETY

Refer to Safety Data Sheets.

DISCLAIMER: The information relating to the application of the above products is given in good faith based on our current knowledge and experience of the product when properly stored, handled and applied. We for any purpose other than the stated uses. To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no liability for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.

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