



# Understanding Rust Marks In Render

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The following site and product variables can result in rust marks in render works:-

- Organic matter in sand deposits
- Insufficient or inadequate protective coatings over the render system
- Structural movement, incorrect installation of the substrate or key construction components allowing moisture and contaminants into the render system
- Compromises to the application system - such as over-coating too early and trapping moisture within the surface.
- Lack of primer/sealer/undercoat over render and under protective coatings
- Thinning of protective coating compromising the Dry Film Thickness over render
- On-site contaminations such as iron filings
- Construction material such as nails and screws.
- Mixing different brands of products within the full application system
- Moisture content trapped in the substrate itself compromising the render system

## ORGANIC MATTER EXPLAINED

Decomposition of organic matter over hundreds of years can result in a percentage found in sand deposits. Despite advanced techniques used for sand grading and processing, manufacturer's are unable to fully guarantee that there will not be this naturally occurring material within their sand - and that this may result in random rust marks should the render be insufficiently protected.

A good indication of whether rust is occurring throughout the render or whether it is an independent cause is to note if the rust issue is contained to specific areas or present across the entire job.

RSA and River Sands have an excellent track record of very minimal rust issues in their render products. We manufacture all of our products to strict Quality Assurance Guidelines certified to ISO 9001. So while this naturally occurring mineral found in sand deposits cannot be completely controlled through the raw material feed process, our processes are very fine tuned and stop this occurrence most of the time. River Sands has its own sand deposits and their experience and specialisation in manufacturing sand and cement based products since 1974 is very reassuring.

## PROTECTIVE MEASURES

The most important measure one can take to restrict the appearance of rust marks is to ensure the protective coating system has adequate properties. The minimum requirements recommended by RSA for our systems must be adhered to.

Certain areas can promote the appearance of rust marks. We recommend that projects close to waterways, in high moisture regions and areas exposed to salt air, should consider premium render, texture and protective coating systems for superior protection and to reduce the risk of the occurrence of "rust".

A premium system for these areas includes the following options:

### Render Only System

- Render Coats
- Primer
- two coats RSA Rendbrane – 'croc skin finish' (min. 300 microns DFT).

### Render and Texture System

- Render Coats
- RSA Acrylic Trowel-on Texture
- two coats of RSA Protect.

Ordinary exterior house paint is insufficient over any render system and can break down easily exposing the render system to environmental elements and contaminants.

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Render Systems Australia – A Division of River Sands Pty Ltd

683 Beenleigh-Redland Bay Rd, Carbrook, Qld 4130 PO Box 4127 Loganholme DC Qld 4129 Phone: 07 3287 6444 Fax: 07 3287 6445

#### Service Centres

Geebung: Phone: 07 3865 6888 Fax: 07 3865 8777 Gold Coast: Phone: 07 5597 0423 Fax: 07 5597 0424

Sunshine Coast: Phone: 1800 077 744 Fax: 07 3287 6445

ACN 009 919 215 ABN 41 009 919 215 [www.renderystemsaustralia.com.au](http://www.renderystemsaustralia.com.au)