

Case Study Number Eight

Repair and Removal of Rust Staining

Rust staining may often appear on Park Home exterior coatings, where wood is used as the substrate, and is initially created by a water based surface coating reacting with metal staples used in the construction process, causing flash rusting. Rusting continues when moisture contacts the metal, which causes rust to permeate through to the coating surface.

There are two different stages of the rusting process which will need to be identified if the removal of rust and the repair is to be effective.

The first is when slight staining only can be seen on the surface.

The second is when the rust has surfaced and both the metal staple and the paint are beginning to flake.

These two conditions should be easily recognised with the naked eye but must be repaired quite differently



Treatment for Light Staining Only

3. Clean the coating surface by lightly scrubbing with a mild detergent and water mix or by pressure-wash.
4. Once the surface is **completely dry** apply two coats of **Everbind** binder barrier coat, a single pack Moisture Cure Polyurethane, making sure that the second coat is applied whilst the first coat is still tacky. (Failure to ensure this will mean that the second coat of binder barrier will not adhere to the first coat and flaking will result) The binder barrier must be applied to a minimum of 250mm surrounding the original rust stain area.
5. Apply one or two coats of **Everflex** or **Evercoat** to the entire surface of the unit. As **Everflex** and **Evercoat** paint are water based they should only be applied when dry weather is expected to last for at least 4hours.

Treatment for heavy Staining and Flaking

1. Clean the surface by removing the flaking paint right back to the plywood substrate. Ensure rust is removed from staple surface.
2. When **all of the flaking material has been removed and the surface is completely dry**, apply two coats of **Everbind** binder barrier making sure that the second coat is applied whilst the first coat is still tacky. (Failure to ensure this will mean that the second coat of binder barrier will not adhere to the first coat and flaking will result) The binder barrier must be applied to a minimum of 250mm surrounding the original rust stain area.
3. Apply **Everflex** or **Evercoat** HiBuild by either Plasterers float, a wide soft bristle brush or by roller. The material should be applied evenly over a controlled area at approx. 1.0 – 1.5 metre square per litre. A number of surface textures can be achieved using different rollers and patterns; this is known as back rolling technique.
6. Once the surface has been returned to the original pattern then apply one or two coats of **Everflex** Smooth to the entire surface of the unit. As the **Everflex** paint is water based it should only be applied when dry weather is expected to last for at least 4hours.

Provided that these simple procedures are carried out, staining or rusting is unlikely to return and the surface finish should present an attractive appearance for many years to come.