

Substrate Characteristics

The zinc coating on galvanised steel is a reactive metal that protects the steel by sacrificing itself. The corrosion product is referred to as 'white rust' and the rate of corrosion is strongly affected by exposure conditions. It is recommended it is painted as soon as possible with special primers, such as Resene Galvo-Prime (see [Data Sheet D402](#)) or Resene Galvo One (see [Data Sheet D41](#)). If the galvanised steel has weathered for any substantial period or shows any signs of white rust, Resene Galvo One is the preferred primer. Zinalume is coated with a high aluminium containing zinc alloy. While it is less reactive and less sacrificial than zinc, it should still be painted as soon as possible. Weathering of Zinalume has significantly less deleterious effects than it has on galvanised steel.

Resene research indicates that Resene Galvo One and Resene Galvo-Prime are both suitable for use over Zinalume.

Surface Preparation

New Work - see [Surface Preparation D89](#) for detailed preparation guidelines.

Repaints - see [Surface Preparation D87](#) for detailed preparation guidelines.

5e 1 Exterior Waterborne

Windblown salts on the metal surface and between coats cause premature corrosion. Always wash the area to be painted with fresh clean water before commencing work. For better hiding, Resene Acrylic Undercoat (see [Data Sheet D404](#)) tinted to the correct colour may replace one of the topcoats. For locations in close proximity to the sea, two full coats of Resene Galvo-Prime are recommended. The choice of Resene Hi-Glo micaceous iron oxide based colours (see [Data Sheet D31](#)) will also give superior protection. For harsh environments a protective coating may be required – see the Resene Engineered Coating Systems Manual or contact Resene.

| Generic Specification | | | | Resene Spec No. | Resene One-Line Specification | | | |
|-----------------------|-------------|------------|-------------|-----------------|-------------------------------|--|-----------------------------------|---------------------------------|
| Substrate | Environment | Paint Type | Gloss Level | | Surface Prep | 1st Coat | 2nd Coat | 3rd Coat |
| Galvanised Steel etc. | Exterior | Waterborne | Gloss | 5e 1.1 | D89] | NW: Galvo-Prime D402 R: Galvo One D41] | Hi-Glo D31] | Hi-Glo D31 |
| Galvanised Steel etc. | Exterior | Waterborne | Semi-Gloss | 5e 1.2 | D89] | NW: Galvo-Prime D402 R: Galvo One D41] | Sonyx 101 D30] | Sonyx 101 D30 |
| Galvanised Steel etc. | Exterior | Waterborne | Satin | 5e 1.3 | D89] | NW: Galvo-Prime D402 R: Galvo One D41] | Lumbersider D34] | Lumbersider D34 |

5e 2 Exterior Solventborne

Because of their lower exterior durability, solventborne paints are not recommended on exterior roofs. Furthermore, solventborne paints may only be applied over Resene Galvo One. Windblown salts on the metal surface and between coats may cause premature corrosion. Always wash the area to be painted with fresh clean water before commencing work. For better hiding, Resene Acrylic Undercoat tinted to the correct colour may replace one of the topcoats. For harsh environments a protective coating may be required – see the Resene Engineered Coating Systems Manual or contact Resene.

| Generic Specification | | | | Resene Spec No. | Resene One-Line Specification | | | |
|-----------------------|-------------|--------------|-------------|-----------------|-------------------------------|---------------------------------|--|---------------------------------|
| Substrate | Environment | Paint Type | Gloss Level | | Surface Prep | 1st Coat | 2nd Coat | 3rd Coat |
| Galvanised Steel etc. | Exterior | Solventborne | Gloss | 5e 2.1 | D89] | Galvo One D41] | Acrylic Undercoat D404] | Super Gloss D32 |

Key: NW = New Work R = Repaints

Exterior Galvanised Steel and Zinalume