

NZDU03547 Dulux Weathermax HBR Gloss on Painted Galvanised Steel [Exterior]

Scope of Works

DULUX Durebild STE is a versatile, two-pack, high solids epoxy that can be easily applied by spray in shop and by brush and roller on site. Durebild STE's surface tolerant feature makes it an excellent universal tie-coat over previously painted surfaces or as a spot-primer and intermediate coat over power tool cleaned steel. The high build characteristics allow you to apply Durebild STE to higher film builds with fewer coats, saving you time and money. DULUX Weathermax HBR is a high performance coating that exhibits excellent gloss and colour retention, even during extended service periods in severe industrial and marine environments

Substrate and Substrate Preparation

Substrate Notes

This is a generic galvanised or zinc coated substrate. Please see the respective substrate for: non-ferrous metals, steel, pre-coated sheet steel. Other specialty metal substrates may also not be covered by this substrate.

GALVANISED STEEL (Zinc Coated Steel, Galvanised Iron)

Galvanised steel has been coated with a layer of zinc, either by dipping in molten zinc/zinc alloy, sprayed with molten zinc metal or electrodeposition of zinc. The zinc layer provides galvanic corrosion protection in much the same way that zinc rich primers do, by corroding in preference to the steel with which it is in contact. New galvanised iron, zinc and zinc-alloy surfaces should be examined for flux residues, light roll-forming oils, and foreign matter, all of which must be removed. Surfaces that show white rust or other corrosion products should be cleaned and treated appropriately. Zinc and zinc-alloy coated surfaces must not be primed with alkyd based paints due to a chemical reaction between the zinc and the alkyd resin.

Galvanised steel can be difficult to paint and protect because of the highly reactive nature of galvanising, particularly in coastal and chemical environments.

In many circumstances superior corrosion protection and superior compatibility with topcoats can be achieved by the use of Dulux zinc-rich, two-pack primer on mild steel instead of hot dipped galvanising. Please consult a Dulux Protective Coatings representative for specific requirements.

ZINC METAL SPRAY

Steel sprayed with molten zinc metal. The zinc layer provides corrosion protection in much the same way as hot dipped galvanised steel. There are fewer limitations on the size of objects that can be coated than with hot dip galvanisation, however, the porosity of the resulting surface will be higher.

Substrate Preparation Notes

DOMESTIC CLEAN

Remove all surface contamination such as oil, grease or dirt by alkaline detergent solution wash, such as Dulux Prep Wash, using stiff bristle brush if necessary, and rinse with fresh potable water. Repeat until the surface is clean. Alternatively, the surface can be cleaned by water blasting.

ASSESS SUITABILITY

Inspect to determine the degree of deterioration of existing coatings. Identification of the existing coating is also very helpful in determining the repaint system. Check coating adhesion using the cross-cut adhesion test, carried out in various locations.

REPAIR OF SURFACE DEFECTS

Remove all coatings that had failed adhesion test, or that are cracking, peeling, flaking or otherwise unsound by sanding, power sanding, scraping, wire brushing or burning off as appropriate. Where coating is removed back to a well-adhered, hard edge, feather the edges of the coating to remove visual ridges. Remove all residual loose matter resulting from the cleaning process by brush, vacuum, or clean, compressed air.

ABRADE SURFACE

Where the existing coating passes adhesion test, abrade surface to thoroughly de-gloss the surface and to provide a suitable surface for re-coating. Ensure all dust is removed prior to continuing.

PRIME

Spot prime all bare metal with an appropriate, corrosion-inhibiting primer as soon as possible, before the surface oxidises or becomes contaminated. Overlap onto the sound adjacent coating by 25 to 50 mm.

RUST AFFECTED SUBSTRATES

1. Remove any loose or flaking coating back to a hard edge by scraper or power tool. Feather back all edges to remove ridges. Abrade surface of remaining coating to provide a suitable surface key for adhesion of the new coating system.
2. Using wire brush or power tool cleaning methods as appropriate, clean all bare metal surfaces and rust-affected areas. If the rust is severe, remove all paint, zinc coating and rust with abrasive blast cleaning, power wire brush or power tool cleaning. Remove filings, preferably by vacuum or compressed air. Ensure that the surface is clean, corrosion-free and dry immediately prior to application of primer coat.
3. Spot prime all bare metal with an appropriate, corrosion-inhibiting primer as soon as possible, before the surface oxidises or becomes contaminated. Overlap onto the sound adjacent coating by 25 to 50 mm.

INDUSTRIAL

CLEAN

Remove all surface contamination such as oil, grease or dirt by alkaline detergent solution wash, such as Dulux Prep Wash, using stiff bristle brush if necessary, and rinse with fresh potable water. Repeat until the surface is clean. Alternatively, the surface can be cleaned by water blasting. A clean surface is indicated when the rinsing water wets out the surface instead of beading on the surface. Refer to relevant sections of AS1627.1.

ASSESS SUITABILITY

Ensure that all coatings are tightly adhering to the substrate by crosshatch adhesion test - if existing coating fails adhesion test, it must be removed.

REPAIR OF SURFACE DEFECTS

Remove all coatings that had failed adhesion test, or that are cracking, peeling, flaking or otherwise unsound by sanding, power sanding, scraping, wire brushing or burning off as appropriate. Where coating is removed back to a well-adhered, hard edge, feather the edges of the coating to remove visual ridges. Remove all residual loose matter resulting from the cleaning process by brush, vacuum, or clean, compressed air.

ABRADE SURFACE

Where the existing coating passes adhesion test, abrade surface to remove gloss and chalkiness, to achieve a smooth, even, sound surface and to provide a good key for the new coating system. Dust off. Complete removal of heavy chalky buildup may require wire brush or power tool cleaning back to sound paint layers before sanding.

PRIME

Spot prime all bare metal with an appropriate, corrosion-inhibiting primer as soon as possible, before the surface oxidises or becomes contaminated. Overlap onto the sound adjacent coating by 25 to 50 mm.

RUST AFFECTED SUBSTRATES

1. Remove any loose or flaking coating back to a hard edge by scraper or power tool. Feather back all edges to remove ridges. Abrade surface of remaining coating to provide a suitable surface key for adhesion of the new coating system.
2. Using wire brush or power tool cleaning methods as appropriate, clean all bare metal surfaces and rust-affected areas in accordance with AS/NZ 1627.2 Class 2. If the rust is severe, remove all paint, zinc coating and rust with abrasive blast cleaning to AS1627.4 Class 2 or power wire brush or power tool cleaning or as appropriate to AS1627.2 Class 2. Remove filings, preferably by vacuum or compressed air. Ensure that the surface is clean, corrosion-free and dry immediately prior to application of primer coat.
3. Spot prime all bare metal with an appropriate, corrosion-inhibiting primer as soon as possible, before the surface oxidises or becomes contaminated. Overlap onto the sound adjacent coating by 25 to 50 mm.

Coating System Summary

- | | |
|---------------|--------------------------------|
| • 1st Coat | Dulux PREP WASH |
| • Spot Primer | Dulux Durebild® STE Semi Gloss |
| • 2nd Coat | Dulux Durebild® STE Semi Gloss |
| • 3rd Coat | Dulux Weathermax HBR Gloss |

Coating System

1st Coat — Dulux PREP WASH

Coat Type
1st Coat

Datasheet
NZDU00398 Dulux PREP WASH

Read the full Datasheet details at [Dulux PREP WASH](#)

Application Methods



Brush

| | Min | Max | Recommended |
|---|----------------------------------|----------------------------------|----------------------------------|
| Theoretical Spread Rate (m ² /L) | <input type="text" value="6"/> | <input type="text" value="12"/> | <input type="text"/> |
| Recoat Time ** | <input type="text" value="n/a"/> | <input type="text" value="n/a"/> | <input type="text" value="n/a"/> |

Meets ECNZ V.O.C. Requirements?

Not Applicable

Coating Application Details

Apply by broom or brush. Or by garden sprayer.

1. Add one part Dulux Prep Wash concentrate to one part water in a clean plastic bucket and mix well.
2. Test on a small inconspicuous area at recommended dilution to determine effectiveness and strength required.
3. Apply diluted Dulux Prep Wash solution to walls/roof/trim with a broom/brush or garden sprayer. Leave the solution on the surface until mould and mildew stains disappear or soften (approximately 10 minutes), avoiding allowing the solution to dry out. Scrub vigorously.
4. Rinse off the surface with water using a high pressure or garden hose and allow surface to dry. Surface may be slippery while wet (roof). Stubborn stains may require longer time, more vigorous scrubbing, or additional treatment. Severely stained surfaces may need a power washer, or treatment with undiluted Dulux Prep Wash concentrate.

SDS Number
000000022880

SDS Link
[View SDS Link](#)

Spot Primer — Dulux Durebild® STE Semi Gloss

Coat Type
Spot Primer

Datasheet
NZDU00482 Dulux Durebild® STE Semi Gloss

Read the full Datasheet details at [Dulux Durebild® STE Semi Gloss](#)

Application Methods



Air Spray



Airless Spray



Brush



Roller

| | Min | Max | Recommended |
|---|---------------------------------------|---------------------------------------|----------------------------------|
| Theoretical Spread Rate (m ² /L) | <input type="text"/> | <input type="text"/> | <input type="text" value="6.7"/> |
| Wet Film Per Coat (microns) | <input type="text"/> | <input type="text"/> | <input type="text" value="150"/> |
| Dry Film Per Coat (microns) | <input type="text"/> | <input type="text"/> | <input type="text" value="125"/> |
| Recoat Time ** | <input type="text" value="14 Hours"/> | <input type="text" value="4 Weeks*"/> | <input type="text"/> |





Meets ECNZ V.O.C. Requirements?

Not Applicable

2nd Coat — Dulux Durebild® STE Semi Gloss

| | | | |
|--|--|----------------------|----------------------|
| Coat Type 2nd Coat | Datasheet NZDU00482 Dulux Durebild® STE Semi Gloss | | |
| Read the full Datasheet details at Dulux Durebild® STE Semi Gloss | | | |
| Application Methods | | | |
|  Air Spray  Airless Spray  Brush  Roller | | | |
| | Min | Max | Recommended |
| Theoretical Spread Rate (m²/L) | <input type="text"/> | <input type="text"/> | 6.7 |
| Wet Film Per Coat (microns) | <input type="text"/> | <input type="text"/> | 150 |
| Dry Film Per Coat (microns) | <input type="text"/> | <input type="text"/> | 125 |
| Recoat Time ** | 14 Hours | 4 Weeks* | <input type="text"/> |
| Meets ECNZ V.O.C. Requirements? Not Applicable | | | |

3rd Coat — Dulux Weathermax HBR Gloss

| | | | |
|--|--|----------------------|----------------------|
| Coat Type 3rd Coat | Datasheet NZDU00492 Dulux Weathermax HBR Gloss | | |
| Read the full Datasheet details at Dulux Weathermax HBR Gloss | | | |
| Application Methods | | | |
|  Air Spray  Airless Spray  Brush  Roller | | | |
| | Min | Max | Recommended |
| Theoretical Spread Rate (m²/L) | <input type="text"/> | <input type="text"/> | 7 |
| Wet Film Per Coat (microns) | <input type="text"/> | <input type="text"/> | 145 |
| Dry Film Per Coat (microns) | <input type="text"/> | <input type="text"/> | 100 |
| Recoat Time ** | 10 Hours | Indefinite | <input type="text"/> |
| Meets ECNZ V.O.C. Requirements? Not Applicable | | | |

Coating System Notes

* Theoretical Coverage is the area is the area covered by 1 Litre of material at the specifiacion 'Dry Film Thickness' without a loss to a smooth and non porous surface.

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The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS/ NZS 4361 Parts 1 and 2 and Worksafe Australia or New Zealand guidelines.