Dulux DuSpec Specification Sheet

EMER CLAD

Emer-Clad Facade Matt / with reinforcing tape for waterproofing metal box gutters on Painted Zinc Coated Steel/Galvanised Steel (Commercial) [Exterior]

AU_SV15722

Description

Emer-Clad Facade with Emer-Clad Reiniforcing Tape to provide a waterproofing membrane system for metal box gutters.

Substrate And Substrate Preparation

Substrate Notes:	ZINC COATED STEEL (Galvanised Iron, Galvanised Steel) SUBSTRATE DESCRIPTION GALVANISED STEEL (Zinc Coated Steel, Galvanised Iron) Steel dipped in molten zinc or zinc alloy. Hot dipped galvanised steel has been coated in zinc only. 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 corrosion products are the major cause of paint delamination. Zinc and zinc-alloy coated surfaces must not be primed with alkyd based paints due to chemical reaction between the zinc and the alkyd resin. Dulux advises that galvanised steel can be particularly difficult to paint and protect because of the highly reactive nature of galvanising, particularly in coastal and chemical environments. More information on this matter can be found through our associated industry bodies such as the Zinc Rich Coatings Council (ZRCC) or the Australasian Corrosion Association via the Dulux protective coatings website "www.duluxprotectivecoatings.com.au" Dulux advises that 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. Given that there will always be a requirement to change the aesthetics of galvanising, the specification below is provided in good faith to minimise the risks associated with painting galvanised steel structures. 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.
Substrate Preparation Notes:	PZC012 - ZINC COATED STEEL, GALVANISED STEEL Sound coatings, no rust present 1. Sound coatings tightly adhering to substrate exhibiting no more than dirt pick-up, loss of gloss, chalking or staining shall be washed with an alkaline detergent and rinsed with fresh potable water. Repeat until the surface is clean. 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 2003 Part 2. 2. Ensure that all coatings are tightly adhering to the substrate by crosshatch adhesion test if existing coating fails adhesion test, it must be removed. 3. 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. 4. Apply coating system as soon as possible and before surface becomes recontaminated. Unsound coatings and/or presence of minor rust 1. Remove all surface contamination such as oil, grease or dirt by washing with an alkaline detergent and rinse with fresh potable water. Repeat until the surface is clean. 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 2003 Part 2. 2. 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 new coating system to adhere to. Ensure that all remaining coatings are tightly adhering to the substrate by crosshatch adhesion test if existing coating fails adhesion test, it must be removed. 3. Using power tool cleaning methods, clean all red rusted metal in accordance with AS/NZ 1627:2 Class 2. Remove all residues. 4. Spot-prime bare, cleaned metal with the spot primer nominated in the Coating System section of the specification before surface begins to rust or becomes recontaminated. The spot primer shall be applied to the prepared base substrate and overlapped onto the sound adjacent coating by not less than 25mm or greater than 50mm. Significantly rust-affected galvanised steel 1. Areas subject to major damage and excessive rusting shall be inspected carefully. 2. Remove all surface contamination such as oil, grease or dirt by washing with an alkaline detergent and rinse with fresh potable water. Repeat until the surface is clean. 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 2003 Part 2. 3. Remove all paint, zinc coatings 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. 4. The cleaned surface must be primed as soon as possible, within a few hours and before surface oxidises or becomes recontaminated, with the first or primer coat nominated in the Coating System section of the specification.

Coating System Summary

Primer:	AU_DV02701: Emer-Clad High Bond Primer Primer
Intermediate:	AU_DV02542: Emer-Clad Emer-Clad Fabric Reinforcing Tape
1st Coat:	AU_DV02489: Emer-Clad Facade Matt
2nd Coat:	AU_DV02489: Emer-Clad Facade Matt
3rd Coat:	AU_DV02489: Emer-Clad Facade Matt

Please refer to the coating system details below

Coating System

Coat Type:	**Primer**	**Datasheet:**	**AU_DV02701 Emer-Clad High Bond Primer Primer**
Application Methods:	Airless Spray, Brush, Roller, Electrostatic Spray		

	Min	Max	Recommended
Theoretical Spread Rate *	13.33		
Wet Film Per Coat (microns)	75		
Dry Film Per Coat (microns)	30		
Recoat Time **	2 hours		

Coating Application Details:	Emer-Clad High Bond Primer may be applied by brush, roller or spray. For spray application up to 15% thinning with fresh clean water may be necessary. It has sufficient conductivity to allow application by electrostatic spray. The primer will be touch dry in approximately 30 minutes and may be overcoated after 2 hours drying with waterborne finishes under normal conditions. This can be assessed at the time of application and in influenced by ambient temperature and type of surface treated. When priming over bituminous liquid or sheet membranes, ensure full coverage of the Emer-Clad High Bond Primer and if any doubt exists on achieving a continuous film apply a second coat. Note: do not apply at temperatures below or may fall below 10°C during the drying period.

Coat Type:	**Intermediate**	**Datasheet:**	**AU_DV02542 Emer-Clad Emer-Clad Fabric Reinforcing Tape**
Application Methods:	Other Product can be cut with scissors, knife or similar cutting tools. Flat spatula or brush.		

Coating Application Details:	Emer-Clad Facade is applied to the substrate and while in a wet state the Emer-Clad Reinforcing Tape is embedded into position and over lapped a minimum of 30mm. Do not allow the liquid membrane to tack off or skin before embedding the fabric. Air pockets or creases should be removed with a flat spatula or brush while the membrane is still in a wet state. Subsequent coats of the liquid membrane should ensure the total fabric is covered.

Coat Type:	**1st Coat**	**Datasheet:**	**AU_DV02489 Emer-Clad Facade Matt**
Application Methods:	Airless Spray, Brush, Roller		

	Min	Max	Recommended
Theoretical Spread Rate *	3		3
Wet Film Per Coat (microns)	334		334
Dry Film Per Coat (microns)	167		167
Recoat Time **	2 hours		2 hours

Coating Application Details:	Apply Emer-Clad Facade by brush, roller or airless spray to the previously primed surface. Previously primed and prepared surface: Apply 3 coats of Emer-Clad Facade protective coating embedded with Emer-Clad Reinforcing Tape to achieve a dry film thickness of 500 microns. To visually facilitate coverage and ensure adequate film build, different colours may be used for each coat of Emer-Clad Facade.

Coat Type:	**2nd Coat**	**Datasheet:**	**AU_DV02489 Emer-Clad Facade Matt**
Application Methods:	Airless Spray Brush Roller		

	Min	Max	Recommended
Theoretical Spread Rate *	3		3
Wet Film Per Coat (microns)	334		334
Dry Film Per Coat (microns)	167		167
Recoat Time **	2 hours		2 hours

Coating Application Details:	Apply Emer-Clad Facade by brush, roller or airless spray to the previously primed surface. Previously primed and prepared surface: Apply 3 coats of Emer-Clad Facade protective coating embedded with Emer-Clad Reinforcing Tape to achieve a dry film thickness of 500 microns. To visually facilitate coverage and ensure adequate film build, different colours may be used for each coat of Emer-Clad Facade.

Coat Type:	**3rd Coat**	**Datasheet:**	**AU_DV02489 Emer-Clad Facade Matt**
Application Methods:	Airless Spray Brush Roller		

	Min	Max	Recommended
Theoretical Spread Rate *	3		3
Wet Film Per Coat (microns)	334		334
Dry Film Per Coat (microns)	167		167
Recoat Time **	2 hours		2 hours

Coating Application Details:	Apply Emer-Clad Facade by brush, roller or airless spray to the previously primed surface. Previously primed and prepared surface: Apply 3 coats of Emer-Clad Facade protective coating embedded with Emer-Clad Reinforcing Tape to achieve a dry film thickness of 500 microns. To visually facilitate coverage and ensure adequate film build, different colours may be used for each coat of Emer-Clad Facade.
Additional Coating Details:	A fourth coat may be required if imperfections are present in the membrane.
Coating System Notes:	* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness. ** Recoat times are quotes for 25°c and 50% relative humidity, these may vary under different conditions. * Do not apply at temperatures below 10°C, or when temperature may fall below 10°C during the drying period. * Do not apply any materials during damp or rainy conditions or where there is likelihood of rain. Temperatures above 30°C reduce the wet edge time and, as with other water based coatings, may increase the risk of showing lapmarks and rollermarks after drying, especially with darker colours. * Not designed for permanently immersed applications. * Application of all liquid applied membranes and primers should always refer to the surface temperature conditions before commencing and not just ambient temperatures. * The system should only be used where there are appropriate falls and drainage. * The membrane should be protected from rain during the first 48 hours.