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For a completely obligation-free consultation, please do not hesitate to contact us.

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Dulux
PROTECTIVE COATINGS

WINE INDUSTRY

Protecting Australasia's assets.



PROTECTING AUSTRALASIA’S ASSETS

FOR well over 75 years, Dulux has supplied heavy duty coatings systems for complete protection against corrosion, chemical attack, and abrasion found specifically in the varied food, wine, and beverage industries.

From pick to pack, from tractors and combine harvesters, to silos, barrels, mixers, presses, processers, distillers, bottling and canning, boilers, chillers, coolrooms, and warehouses; the structural steelwork exposed to high humidity and acidic environments, the seamless flooring that must withstand shift after shift of brisk activity with minimum downtime; bulk containers carrying corrosive solutions such as acetic acid, citric acid or brine, oils such as coconut, peanut palm or soyabean, glycerine, ethanol, and hundreds of food additives to impart texture, colour and shelf stability call for heavy duty protective coating systems designed specifically for the substrate and environment they are to be used in.

Industries like

- Wine industry
- Sugar cane farming and sugar refining
- Fruit canneries
- Soft drink bottling
- Meat processing plants

All have specific needs that require unique coatings solutions.

With world-class research and development laboratories, supported by our Australasian manufacturing bases, and experienced assistance in both specification and on-site application, Dulux Protective Coatings excels.

From inorganic zinc silicates, epoxy zincs, zinc phosphates, and surface tolerant epoxies, solventless and non taint epoxy coatings and tank linings, low odour flooring, solventless pure polyureas, polyurethanes, to specialized and heat-resisting and cold room product lines, Dulux Protective Coatings has the products, the people, and the expertise to ensure the right coatings are supplied and applied without delays and with confidence.

Dulux Protective Coatings – the number 1 choice in heavy duty asset protection across Australasia.

WE’RE HERE



OUR PRODUCTS

The list below is a summary of the protective coatings products included in our Maintenance Systems and Coating Systems specifications in this publication.

Your Dulux Representative may suggest and/or specify other products within our range for your particular coating needs.

PRIMERS		
PRODUCT	DESCRIPTION	DATA SHEET
DULUX DUREPON P14	Zinc phosphate epoxy primer	PC 206
DULUX LUXEPOXY 4 WHITE PRIMER	Epoxy primer	PC200
DULUX METALSHIELD ETCH PRIMER	Etch Primer	LI009
DULUX METALSHIELD ZP PRIMER	Zinc phosphate primer	LI004
DULUX ZINCANODE 402	Zinc rich epoxy primer	PC122

INTERMEDIATES		
DULUX DUREBILD STE	Surface tolerant high build epoxy	PC237
DULUX DUREMAX GPE	General purpose epoxy	PC255
DULUX LUXACHLOR HB	Chlorinated rubber acid resistant coating	PC522
DULUX LUXAPRIME UMP	General tie coat	PC625

TOPCOATS		
DULUX ACRATHANE IF	High gloss catalysed acrylic	PC218
DULUX CONGARD	Gloss enamel primer-finish	PC640
DULUX DUREBILD TLE	Non taint epoxy tank lining	PC221
DULUX EPIGLOSS 4 FINISH	Non taint epoxy coating	PC223
DULUX LUXACHLOR FINISH	Chlorinated rubber acid resistant finish	PC
DULUX LUXATHANE R	High gloss polyurethane	PC402
DULUX METALSHIELD PREMIUM	High gloss silicone enamel	LI011
DULUX WEATHERMAX HBR	High build brushable polyurethane	PC405

SPECIALTY PRODUCTS		
DULUX APEXIOR NO 1	Coating for hot wet metal surfaces	PC900
DULUX COLD ROOM WHITE	Coating for cold rooms	PC808
DULUX ROADMASTER WB2	Waterborne line marking	PC684

For a comprehensive list of all our products, please visit our website at www.duluxprotectivecoatings.com.au.

BEFORE YOU START

SURFACE PREPARATION

Good surface preparation is crucial to the performance of a coating system.

Make sure your applicator has all the right equipment to remove and contain all rust, deteriorated coatings and residues from all surface to be painted. Such equipment may include, but is not limited to: spot abrasive blasters (wet or dry), MBX® Bristle Blasters®, ultra high pressure water jets, and power sanders.

The use of rust converters and other chemical treatments is not recommended, as these are notoriously unreliable (refer to Standards Australia AS2312:2002 for more information) as they generally fail in their claims to provide a sound substrate for new coating systems to adhere to.



COATING SPECIFICATIONS

Your coating specifications should be quite specific with regard to surface preparation method, product name and minimum dry film thickness of each coat. Using your Dulux Technical Representative’s coating specifications will assist you to achieve the following outcomes:

1. Fairer tenders – this creates a level playing field for your contractors, as their tenders must conform to your specifications.
2. Easier choice of contractor – when all tenderers are pricing the job based on the same set of specifications, your selection process becomes simpler.
3. More control over what you get – your Dulux Representative can work with your contractor to ensure that the correct products are supplied, and in sufficient quantity, to the job properly.
4. On-site support – Your Dulux Representative offers on-going assistance to you and your maintenance crew
5. Product guarantee – all products specified by your Dulux Representative are guaranteed fit for purpose.
6. A durable asset protection system that will be aesthetically pleasing, functional and easy to maintain.

Contact your local Dulux Representative today for an obligation-free visit to your premises to see how we can protect your assets.



OUR MAINTENANCE SYSTEMS

Our maintenance schedules assist in keeping overall maintenance costs low and maintain productivity. The information below is a guide only – for customised and detailed maintenance specifications, call your Dulux Technical Consultant today.

ASPHALT & CONCRETE AREAS - SAFETY MARKING

Preparation: Clean to remove contaminants

1st coat DULUX Roadmaster WB2 @ 230µ

COLORBOND® PANELS - EXTERIOR CLADDING

Preparation: Degrease and degloss with fine abrasive pad

Spot Prime DULUX Durebild STE @ 100µ

1st coat DULUX Durebild STE @ 100µ

2nd coat DULUX Weathermax HBR @ 100µ

CONCRETE FLOORS - EXTERIOR SMOOTH

Preparation: Diamond grind

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Durebild STE @ 125µ

3rd coat DULUX Weathermax HBR @ 100µ

CONCRETE FLOORS - INTERIOR SLIP RESISTANT

Preparation: Diamond grind

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Durebild STE @ 125µ

Slip resistance DULUX Luxafloor Broadcast No 36 Aggregate

3rd coat DULUX Durebild STE @ 125µ

FIBREGLASS BINS - INTERIOR

Preparation: Degrease, abrade, wash down, dry

1st coat DULUX Luxepoxy 4 White Primer @ 50µ

2nd coat DULUX Epigloss 4 Finish @ 50µ

3rd coat DULUX Epigloss 4 Finish @ 50µ

GALVANISED STEEL WALKWAYS - SMOOTH

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

Spot Prime DULUX Durebild STE @ 125µ

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Weathermax HBR @ 100µ

GALVANISED STEEL - STRUCTURAL

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

Spot Prime DULUX Durebild STE @ 125µ

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Weathermax HBR @ 100µ

INSULATION ON TANKS - HEAT REFLECTIVE

Preparation: Degrease, high pressure water wash

1st coat DULUX AcraTex 962 Cool Roof @ 75µ

2nd coat DULUX AcraTex 962 Cool Roof @ 75µ

MASONRY WALLS & CEILINGS - INTERIOR

Preparation: Degrease, wash down, dry

1st coat DULUX Luxepoxy 4 White Primer @ 50µ

2nd coat DULUX Epigloss 4 Finish @ 50µ

3rd coat DULUX Epigloss 4 Finish @ 50µ

METAL COOLROOM WALLS & CEILINGS - INTERIOR

Preparation: Degrease and lightly abrade

Spot Prime DULUX METALSHIELD Etch Primer @ 10µ

1st coat DULUX Cold Room White @ 20µ

2nd coat DULUX Cold Room White @ 20µ

STEEL WALKWAYS AND STEPS - SMOOTH

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

Spot Prime DULUX Durebild STE @ 125µ

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Weathermax HBR @ 100µ

STEEL WALKWAYS - EXTERIOR SLIP RESISTANT

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

Spot Prime DULUX Durebild STE @ 125µ

1st coat DULUX Durebild STE @ 125µ

Slip resistance DULUX Luxafloor Broadcast No 36 Aggregate

2nd coat DULUX Weathermax HBR @ 100µ

STEEL FRUIT BIN EXTERNALS - RUSTED

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

Spot Prime DULUX Durebild STE @ 125µ

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Weathermax HBR @ 100µ

STEEL FRUIT BIN EXTERNALS - MINOR RUST

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

1st coat DULUX Luxaprim UMP @ 60µ

2nd coat DULUX Weathermax HBR @ 100µ

STEEL FRUIT BIN EXTERNALS - ISOCYANATE FREE ALTERNATIVE FOR SPRAY APPLICATION

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

1st coat DULUX Luxaprim UMP @ 60µ

2nd coat DULUX Acrathane IF @ 65µ

3rd coat DULUX Acrathane IF @ 65µ

STEEL FRUIT BIN INTERNALS - RUST FREE

Preparation: Power tool Ref AS1627.2, St 3

1st coat DULUX Luxaprim UMP @ 60µ

2nd coat DULUX Luxachlor HB @ 115µ

3rd coat DULUX Luxachlor Finish @ 60µ

STEEL FRUIT BIN INTERNALS - FOOD GRADE

Preparation: Power tool Ref AS1627.2, St 3

1st coat DULUX Luxepoxy 4 White Primer @ 50µ

2nd coat DULUX Epigloss 4 Finish @ 50µ

3rd coat DULUX Epigloss 4 Finish @ 50µ

STEEL - STRUCTURAL - EXTERIOR EXPOSURE

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

Spot Prime DULUX Durebild STE @ 125µ

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Weathermax HBR @ 100µ

STEEL WASTE BINS - EXTERNALS

Preparation: Power tool Ref AS1627.2, St 3 or UHPWJ

1st coat DULUX Metalshield ZP Primer @ 75µ (bare metal)

OR DULUX Luxaprim UMP @ 60µ (painted surface)

2nd coat DULUX Metalshield Premium @ 50µ

STEEL WASTE BINS - INTERNALS

Preparation: Power tool Ref AS1627.2, St 3

1st coat DULUX Durebild STE @ 125µ

2nd coat DULUX Durebild STE @ 125µ

TIMBER BARREL ENDS - IDENTIFICATION SIGNAGE

Preparation: Degrease, remove degraded paint and sand smooth

1st coat DULUX PROFESSIONAL Interior Semi Gloss

2nd coat DULUX PROFESSIONAL Interior Semi Gloss

TIMBER COOLING TOWER FRAMES - INTERIOR

Preparation: Degrease, remove degraded paint and sand smooth

1st coat DULUX Luxepoxy 4 White Primer @ 50µ

2nd coat DULUX Durebild STE @ 125µ

3rd coat DULUX Durebild STE @ 125µ

TIMBER & MDF GENERALLY - FOOD GRADE

Preparation: Degrease, remove degraded paint and sand smooth

1st coat DULUX Luxepoxy 4 White Primer @ 50µ

2nd coat DULUX Epigloss 4 Finish @ 50µ

3rd coat DULUX Epigloss 4 Finish @ 50µ

STEEL - HARVESTERS & FORKLIFTS

Preparation: Power tool Ref AS1627.2, St 3

Spot Prime DULUX Luxaprim UMP @ 60µ

1st coat DULUX Luxaprim UMP @ 60µ

2nd coat DULUX Luxathane R @ 50µ

3rd coat DULUX Luxathane R @ 50µ

STEEL - TRAILERS

Preparation: Power tool Ref AS1627.2, St 3

Spot Prime DULUX Metalshield ZP Primer @ 75µ

1st coat DULUX Metalshield Premium @ 50µ

2nd coat DULUX Metalshield Premium @ 50µ

STEEL - MISCELLANEOUS ITEMS & EQUIPMENT

Preparation: Power tool Ref AS1627.2, St 3

1st coat DULUX Congard @ 75µ

2nd coat DULUX Congard @ 75µ

STEEL BOILERS, PIPES & HOT WET METALS

Preparation: Power tool Ref AS1627.2, St 3

1st coat DULUX Apexior No 1 @ 75µ

2nd coat DULUX Apexior No 1 @ 75µ

ZINCALUME® & GI ROOFS - HEAT REFLECTIVE

Preparation: Degrease, high pressure water wash

1st coat DULUX AcraTex Roofbond GI Primer @ 75µ

2nd coat DULUX AcraTex 962 Cool Roof @ 75µ

3rd coat DULUX AcraTex 962 Cool Roof @ 75µ

PIPELINE IDENTIFICATION COLOURS

Australian Standard Pipeline Identification Colours. Ref: AS 1345.

Water	G21 Jade	
Steam	N24 Silver Grey	
Oils, flammable liquids	X53 Golden Tan	
Gases	Y44 Sand	
Acids & alkalis	P23 Lilac	
Air	B25 Aqua	
Other Liquids	N61 Black	
Fire Services	R13 Signal Red	
Electric Power	X15 Orange	
Communication	N14 White	
Dangerous Materials	Y14 Golden Yellow + black	
Fresh water & Foodstuffs	B24 Harbour Blue	



OUR COATING SYSTEMS FOR NEW WORK

If you are extending your current facilities or building a new one, the following typical Protective Coating systems are specified and extensively used in wine industries across Australasia are shown below.

To provide tailor made and detailed specifications for your project, please do not hesitate to call the Dulux Protective Coatings Technical Consultant in your area.

ASPHALT & CONCRETE AREAS - SAFETY MARKING	
Preparation: Clean to remove contaminants	
1 st coat	DULUX Roadmaster WB2 @ 230µ
CONCRETE FLOORS - EXTERIOR SMOOTH	
Preparation: Diamond grind	
1 st coat	DULUX Durebild STE @ 125µ
2 nd coat	DULUX Durebild STE @ 125µ
3 rd coat	DULUX Weathermax HBR @ 100µ
CONCRETE FLOORS - INTERIOR SLIP RESISTANT	
Preparation: Diamond grind	
1st coat	DULUX Durebild STE @ 125µ
2nd coat	DULUX Durebild STE @ 125µ
Slip resistance	DULUX Luxafloor Broadcast No 36 Aggregate
3rd coat	DULUX Durebild STE @ 125µ
GALVANISED STEEL - EXTERIOR EXPOSURE	
Preparation: Whip blast	
1 st coat	DULUX Durebild STE @ 125µ
2 nd coat	DULUX Weathermax HBR @ 100µ
MASONRY WALLS & CEILINGS - INTERIOR	
Preparation: Degrease, wash down, dry	
1 st coat	DULUX Luxepoxy 4 White Primer @ 50µ
2 nd coat	DULUX Epigloss 4 Finish @ 50µ
3 rd coat	DULUX Epigloss 4 Finish @ 50µ
METAL COOLROOM WALLS & CEILINGS - INTERIOR	
Preparation: Degrease and lightly abrade	
1 st coat	DULUX METALSHIELD Etch Primer @ 10µ
2 nd coat	DULUX Cold Room White @ 20µ
3 rd coat	DULUX Cold Room White @ 20µ

STEEL WALKWAYS AND STEPS - SMOOTH	
Preparation: Ref AS1627.4, Sa 2 ½	
1 st coat	DULUX Zincanode 402 @ 75µ
2 nd coat	DULUX Durebild STE @ 125µ
3 rd coat	DULUX Weathermax HBR @ 100µ
STEEL WALKWAYS - INTERIOR SLIP RESISTANT	
Preparation: Diamond grind	
1st coat	DULUX Durebild STE @ 125µ
2nd coat	DULUX Durebild STE @ 125µ
Slip resistance	DULUX Luxafloor Broadcast No 36 Aggregate
3rd coat	DULUX Durebild STE @ 125µ

STEEL TANKS & BINS - EXTERNALS	
Preparation: Ref AS1627.4 Sa 2 ½	
1 st coat	DULUX Zincanode 402 @ 75µ
2 nd coat	DULUX Duremax GPE @ 125µ
3 rd coat	DULUX Weathermax HBR @ 100µ
STEEL FRUIT BINS -INTERNALS (FOOD GRADE)	
Preparation: Ref AS1627.4 Sa 2 ½	
1 st coat	DULUX Durepon P14 @ 75µ
2 nd coat	DULUX Durebild TLE @ 125 µ
3 rd coat	DULUX Durebild TLE @ 125 µ

STEEL POTABLE WATER TANKS - INTERNALS	
Preparation: Ref AS1627.4, Sa 3	
1 st coat	DULUX Durebild TLE @ 125µ
2 nd coat	DULUX Durebild TLE @ 125µ

STEEL FERMENTATION TANKS - INTERNALS	
Preparation: Ref AS1627.4, Sa 3	
1 st coat	DULUX Durebild TLE @ 125µ
2 nd coat	DULUX Durebild TLE @ 125µ

STEEL WASTE BINS - INTERNALS	
Preparation: Ref AS1627.4, Sa 3	
1 st coat	DULUX Zincanode 402 @ 75µ
2 nd coat	DULUX Durebild STE @ 125µ
2 nd coat	DULUX Durebild STE @ 125µ

STRUCTURAL STEEL - EXTERIOR EXPOSURE	
Preparation: Ref AS1627.4, Sa 2 ½	
1 st coat	DULUX Zincanode 402 @ 75µ
2 nd coat	DULUX Duremax GPE @ 125µ
3 rd coat	DULUX Weathermax HBR @ 100µ

OUR EXPERTISE

PROTECTION OF WINERY ASSETS

In every situation from farming, picking, storage, transport, processing, fermenting, and packaging to storage and distribution, Dulux Protective Coatings has extensive history in protection against premature coating failure, contamination, corrosion, and costly rectification.

Our specialist Technical Representatives include qualified Coatings Inspectors who are well equipped to work with you to provide the most effective and practical asset protection solutions for both new construction and maintenance of existing facilities and machinery with minimal disruption and downtime.

Regular and detailed inspection and maintenance of storage vessels, processing equipment and factory and warehouse ceilings, walls and floors are absolutely essential to ensure that your product remains taint free. If inadequately maintained, materials deteriorate or corrode on exposure to humidity, food acids, processing chemicals and salts, and rust and other debris can fall into storage vessels or machinery to taint the contents.

CORROSION OF ZINC COATED STEEL

Zinc coated steel products should be avoided if possible in food preparation or storage areas, as food acids dissolve the zinc layer, changing the zinc into soluble corrosion products that can contaminate your foodstuffs.



The cladding's zinc layer has corroded to white zinc oxide. Red rust shows where the zinc has been completely depleted.

“Duplex System” is simply another term for painted galvanised steel. The formation of powdery zinc corrosion products beneath the coating system is the major cause of coating failure.

PROTECTION AGAINST CORROSION

Our coating systems are principally designed to provide long term protection of plant and equipment from atmospheric deterioration and corrosion and chemical attack more effectively than hot dip galvanising, particularly in humid, acidic, and briny environments, and are fully compatible with our high build epoxy barrier coats, our non-taint potable water and food grade tank linings for the safe handling and storage of foodstuffs and UV resistant polyurethanes for long term exterior durability.

Experience repeatedly demonstrates that our systems are also far more easily maintained than “duplex systems” - protecting your assets, and maintaining asset value and productivity.

CASE STUDY

EROSION OF CONCRETE FLOORS

Owners of wineries in South Australia's Lyndoch and Tanunda areas were surprised to find that over time, their concrete floors had seriously eroded, particularly near the drainage points. It had been assumed that their concrete floors would be resistant to spillage of unfermented and fermented grape juice. But all fruit juices are acidic, and contain high levels of sugar and are therefore particularly chemically reactive to unprotected concrete.

According to the Technical Paper from the Concrete Institute of Australia titled “Review of Sugar Attack of Concrete and Its Prevention” (Marita L Berndt, Swinburne University of Victoria), “*Sugar solutions and acid reaction products are aggressive toward hardened concrete*”. The article states that “*Examples of situations where sugar attack may occur include sugar refineries, sugar storage facilities and beverage and food processing plants. Concrete exposed to sugar solutions undergoes degradation of the binding phases in hardened cement paste thereby causing surface loss and exposure of aggregate particles. In practical terms this can eventually lead to uneven and rough surfaces and reduction in surface strength of the concrete. These consequences can impact operational aspects as well as safety.*”

The article concludes that “polymeric coatings or overlays” are preferred for concrete protection and that “...*Successful performance of such materials requires attention to surface preparation and installation procedures. Preparation of a detailed specification for installation and implementation of quality control procedures are integral to achieving a durable solution.*”

Detailed specification documents for floor rectification and correct application of a robust, chemical-resistant polymeric protective coating system were duly provided by the experienced South Australian Dulux Technical Representative, who also ensured all products were mixed and applied correctly.

All work was conducted by the winery staff themselves, with excellent results.

PAST PROJECTS

Many wine making facilities across Australasia today are being effectively maintained with Dulux Protective Coatings.

A small selection of these wineries includes:

- Grant Burge Wineries, Barossa Valley
- Kingston Estates Winery
- Lindemans Karadok Winery
- Orlando Wines, Barossa Valley
- Parker Estates
- Primo Estate Wines, McLaren Vale
- Rolf Binder VERITAS Winery
- Silent Range Estate
- Stonehaven Winery
- Tim Adams Wines, Clare Valley
- Treasury Wine Estates, Barossa Valley
- Ziltzie Wines

Our protective coatings have also been used in other wineries throughout the Barossa Valley, the Riverland in South Australia, and around Mildura in Victoria.