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PROTECTING AUSTRALASIA’S ASSETS

For more than 80 years, Dulux has been here supplying heavy duty coatings systems for complete protection against corrosion, chemical attack, abrasion, and impact damage for the maintenance of asset value and production efficiency.

Dulux Protective Coatings – We’re here.

WE’RE HERE

DULUX GROUP PRODUCTS

Apart from the DULUX Protective Coatings, DULUXGroup also offers a range of other construction products through PARCHEM Construction Supplies.

The products below are particularly suited to the water and wastewater industries.

CONCRETE CURING COMPOUNDS

Water based acrylic curing compound - conforms to AS3799.

Water based wax emulsion, curing compound - conforms to AS3799.

CONCRETE REPAIR

Patch repair mortars with very low shrinkage.

High performance mortars with superior biogenic corrosion resistance.

GROUTING

General purpose, high flow, shrinkage compensated grout - (gaps 10 mm to 100 mm thickness).

Formulated anti-wash out specialist grout for underwater grouting applications.

JOINER FILLER BOARD

Non-absorbent, semi-rigid, polyethylene joint filler.

Medium density, closed cell polyethylene backing rod range.

JOINER SEALANTS - HORIZONTAL, TRAFFICABLE

Tough, abrasion resistant, one-component, polyurethane joint sealant.

JOINER SEALANTS - VERTICAL

Highly chemical resistant, fast cure, durable, one-component joint sealant.

High MAF, two-part, polyurethane joint sealant for water retaining structures.

Highly flexible, large joint capable, chemically resistant, joint bandage membrane system.

WATERPROOFING SYSTEMS

Fast setting, cement based permanent mortar to plug running water leaks.

Surface applied, cement based render, waterproofing barrier for positive and negative water pressure applications.

WATERSTOPS

High expansion butyl bantane based hydrophilic wallstop.

Centrally and externally placed, PVC waterstop profiles for use in cast in-situ concrete.

Premium grade, water swellable, waterstop range for use in cast in-situ concrete.

Gun applied, water-swellable, waterstop pastes.

For information on any of the above products please call PARCHEM Construction Supplies on 1300 737 787.

DULUX PRODUCTS

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

The number of products in this guide has been minimised for simplicity and practicability. Your DULUX Protective Coatings Representative may suggest and/or specify other products within our range for your particular coating needs.

PRODUCT DESCRIPTION DATA SHEET

PRIMERS

DULUX Durepon® P14 Zinc phosphate epoxy primer PC206

DULUX Luxepoxy® 66 Blast primer PC208

DULUX Zincanode® 304 Inorganic zinc silicate PC142

DULUX Zincanode® 402 Zinc rich epoxy primer PC122

INTERMEDIATES

DULUX Durebild® STE Surface tolerant high build epoxy PC237

DULUX Durekem® MPP Multipurpose phenolic epoxy PC252

DULUX Duremax® GFX High performance glass flake-rich epoxy PC256

DULUX Duremax® GPE General purpose epoxy AS4020 (untinted only) PC255

LININGS AND TOPCOATS

DULUX Durebild® HSE Non taint epoxy tank lining AS4020 PC230

DULUX Durebild® TLE Non taint epoxy tank lining AS4020 PC221

DULUX Flexiflu® Pure polyurea elastomer AS4020 PC390

DULUX Weathermax® HBR High build UV resistant brushable polyurethane PC405

The coating system comprising DULUX Durebild® STE surface tolerant epoxy primer and DULUX Weathermax® HBR polyurethane topcoat has been tested in accordance with AS4548.5 Appendix C & D for use as a concrete anti-carbonation coating system and thus provides protection against concrete spalling.

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

DISCLAIMER

The technical data contained in this document is given in good faith as being appropriate and reliable at time of issue, but we cannot warrant that it is free from error or that it complete or up to date. This document is intended as a guide only and cannot be expected to cover every microclimate and situation. Use of the information contained herein is solely at your own risk. Any technical advice and/or coating specifications for your particular project must be issued from an appropriate DULUX Protective Coatings Representative.
MAINTENANCE

Our coating systems for maintenance are convenient and simple. Both DULUX Durebild® STE surface tolerant epoxy primer and DULUX Weathermax® HBR polyurethane are suitable for brush and roller application, and the high solids formulation assists in achieving specified film thicknesses in fewer coats than conventional equivalents.

CONCRETE EXTERNALS – ANTICARBONATION COATING
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 125µm
2nd coat DULUX Weathermax® HBR @ 100µm

CONCRETE INTERNALS – 100% POLYUREA LINING
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 125µm
2nd coat DULUX Flexituff® @ 250µm

CONCRETE INTERNALS – EPOXY LINING
Preparation: Abrasive blast
1st coat DULUX Durebild® HSE @ 100µm
2nd coat DULUX Durebild® HSE @ 250µm

STEEL EXTERNALS – UV RESISTANT COATING
Preparation: Ref. AS1627.4, Sa 3
Spot prime DULUX Zincanode® 40 @ 75µm
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Durebild® HSE @ 250µm

STEEL EXTERNALS – 100% POLYUREA LINING
Preparation: Ref. AS1627.4, Sa 3
1st coat DULUX Durebild® STE @ 125µm
2nd coat DULUX Durebild® HSE @ 250µm

STEEL EXTERNALS – EPOXY LINING
Preparation: Ref. AS1627.4, Sa 3
Spot prime DULUX Durebild® HSE @ 100µm
1st coat DULUX Durebild® HSE @ 250µm
2nd coat DULUX Durebild® HSE @ 250µm

While the above coating systems have been used on existing water and wastewater treatment plants across Australia and present a handy guide, a personal visit from a DULUX Protective Coatings Technical Representative, however, our services are free and obligation-free.

Before you start!

Coating specifications

Your coating specifications should be quite specific with regard to surface preparation method, product name, application method, and minimum dry film thickness of each coat. This way, the contractor knows exactly what the job will involve, and allows him to quote accurately.

Detailed maintenance specifications can be complicated and time consuming, and outsourcing this work can be a costly exercise. If you engage the services of a DULUX Protective Coatings Representative, however, our services are free and obligation-free.

Using your DULUX Protective Coatings Representative’s specifications will help achieve the following outcomes:

1. Economical solutions – you save time and money
2. Fairest tenders – conforming tenders create a level playing field for your contractors
3. Easier choice of contractor – your selection process becomes simpler when comparing tenders based on the same set of specifications
4. 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 do the job properly
5. On-site support – Your DULUX Representative offers on-going assistance to you and your maintenance crew.
6. A durable asset protection system that will be functional and easy to maintain.
7. All coating systems specified for holding potable water fulfill AS4020

Contact your local DULUX Protective Coatings Representative today for an obligation-free site visit and tailor-made maintenance schedules to protect your assets.

Water treatment industries

Local expertise and experience

At every stage of water and waste water treatment, from catchment, purification, storage, distribution, sewerage, screening, aeration, fermentation, sedimentation, biocides removal, disinfection to release, DULUX Protective Coatings have over 80 years experience in total asset protection.

Treatment plants suffer many forms of corrosion, such as pitting from water condensation, embrittlement from hydrogen exposure, and stress corrosion cracking from sulphides. Corrosion is exacerbated by the oxidising chemicals used in the water treatment process.

Poorly protected reinforced concrete is attacked by acid gases produced by wastewater and treatment processes, which corrode the reinforcing steel that spall the concrete. On all externals subject to Australasian levels of UV exposure, temperature fluctuations and corrosive atmospheric chemicals, high performance protective coatings providing corrosion protection and carbonation resistance are essential to protect against corrosion, degradation and spalling to minimise downtimes, prolong asset life, and maintain asset value.

Is Australia particularly harsh?

Many coating types are readily attacked by the extreme UV radiation of Australia. While many protective coatings are tested in exposure sites such as Florida, DULUX Protective Coatings are tested in the significantly harsher conditions in Allunga, Queensland. (see World Map of Average Solar Radiation below). Therefore, coatings that have passed overseas testing simply may not perform adequately here.

Past projects

A small selection of water treatment facilities maintained by Dulux Protective Coatings includes:

- Anglessea Water Tank Vic
- Bamarang - Degrit Chamber NSW
- Bondi Sewage Penstocks NSW
- Bundamba Grey Water Treatment Plant Qld
- Bottom City Reservoir Qld
- Cabbage Gum Potable Water Tank NT
- Carrum Downs Potable Water Tank Vic
- Cradle Coast Water Waste Treatment Tas
- Craigieburn No 2 Potable Water Tank Vic
- Eagle Point Potable Water Tanks Vic
- Eastern Treatment Plant Vic
- Farmborough & Woonauna Reservoir NSW
- Frankston and Pakenham Potable Water Tanks Vic
- Gippsland Water Vic
- Glenmaggie Dam Outlet Conduit Refurbishment Vic
- Glenorchy City Council Reservoir Tas
- Kangaroo Ground Water Storage Vic
- Kyeemagh Sewerage Line NSW
- Malabar - Sewageage pumping station & Outfall NSW
- McMinns No 1 Water Storage Facility NT
- Mount Martha Treatment Plant & Water Tanks Vic
- Mount Ridley Potable Water Tank Vic
- Narre Warren Storage Facility Vic
- Ocean Grove Water Storage Facility Vic
- Patterson River Tidal Gates Vic
- Pretty Satly Potable Water Tank Vic
- Roslynle Potable Water Tank Vic
- Silvan Mini Hydro Surge Tank & Water Tower Vic
- Somers No 2 Potable Water Tank Vic
- South Morang No 2 & 3 Tanks Vic
- Sugarloaf pipeline Toolangie and Yea tanks Vic
- Tennant Creek Water Storage Tank NT
- Wayalalaha Power Station Woodstave Pipeline Tas
- Warrimoo & Woonauna Reserves NSW
- Western Treatment Plant Wornoe Vic
- Whitunday Sewage Treatment Plant Qld
- Wurdeel Boluc Backwash Tank Vic

Kangaroo Ground Water Storage

Bundamba Grey Water Treatment Plant Qld

Protecting Australia's assets.
STEEL SURFACE PREPARATION

A protective coating system life to first maintenance is greatly affected by the thoroughness of surface preparation before coating application. The surface must be completely cleaned of all mill scale, rust, oil deposits, dust, salts and unsound coatings. Furthermore, the surface must be roughened sufficiently to create a key for the coating system to bond to. The greater the surface profile, the greater the surface area affected by the thoroughness of surface preparation before coating application. The surface must be completely cleaned of all rough welds, and remove all weld spatter or slag. Grind sharp edges down to at least 2 mm radius. All surfaces to be coated are to be dry abrasive blast cleaned to AS1627.4 Class 3, White Metal. Remove all spent abrasive and residual dust by using dry compressed air, sweeping with a clean brush or vacuum cleaning prior to application of the coating. Avoid handling blasted steel with bare hands. The surface must be inspected prior to coating application to ensure neither surface defects nor contamination exist, otherwise rectification is required before any coating is applied. Apply initial coating within a four hour period after blasting, or before any surface deterioration or contamination occurs. Welds, bolts, bolt holes, and all edges must be stripe coated with primer before application of full coat of primer.

NEW STEELWORK

Where steel is to be immersed, the following surface preparation must be carried out.

Remove all surface contamination such as oil, grease, dirt, acid or alkali etc. by cleaning to AS3894.6 standards and ensuring that all salts have been removed to the required tolerances. Grind off all rough welds, and remove all weld spatter or slag. Grind sharp edges down to at least 2 mm radius. All surfaces to be coated are to be dry abrasive blast cleaned to AS1627.4 Class 3, White Metal. Remove all spent abrasive and residual dust by using dry compressed air, sweeping with a clean brush or vacuum cleaning prior to application of the coating. Avoid handling blasted steel with bare hands. The surface must be inspected prior to coating application to ensure neither surface defects nor contamination exist, otherwise rectification is required before any coating is applied. Apply initial coating within a four hour period after blasting, or before any surface deterioration or contamination occurs. Welds, bolts, bolt holes, and all edges must be stripe coated with primer before application of full coat of primer.

EXISTING STEELWORK

The condition of existing coatings and substrates can vary widely, so to gain the appropriate surface preparation required. Your first best step is to call a Dulux Protective Coatings Representative for site inspection. He or she will capture your needs in photographs and survey reports, and provide you with tailor-made surface preparation clauses appropriate for the area and coating specifications required. While the method can vary, the outcome must be the same when preparing steel for painting: the surface must be sound, clean, defect-free, and uniformly rough to maximise coating adhesion.

RUST CONVERTERS

Rust converters and other chemical pretreatments are definitely not recommended, as they do not remove rust — they simply chemically convert rust into what seems to be a firmer substance. But rust converters generally fall short in their claims to provide a sound substrate for new coating systems to adhere to. Refer to Standards Australia AS2312.1:2014 for more information.

Thorough 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 surfaces to be painted. Such equipment may include, but is not limited to: spot abrasive blaster (wet or dry), Bristle Blaster®, ultra high pressure water jet, or power sander.

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GUIDE FOR WASTEWATER TREATMENT PLANTS

The following is intended as a guide only. For your project’s total asset protection, please call your DULUX Consultant.

CONCRETE SURFACE PREPARATION

Concrete is an extremely variable surface to paint – it may harbour moisture, latence, efflorescence, form oils, release agents, stains, oily deposits, or dust. The final concrete strength can vary widely from the designed concrete strength due to overwatering, overworking, or poor curing techniques. Defects such as honeycombing, mortar splashes, gouges or shrinkage cracks will need immediate patching, while concrete spalling will need major rectification work.

Concrete must be clean, sound and dry before any protective coating system is applied.

EXISTING CONCRETE

Clean to remove all dirt, dust, efflorescence, laitence, powder deposits and all other surface contaminants using a suitable cleaning agent and rinsing clean with high pressure water blast. Treat mould growth with a suitable mould treatment after the substrate has been pressure washed.

Inspect existing coating for deterioration. Check coating adhesion using the standard cross hatch test (refer AS 1580.408.A-1993: Paints and related materials - Methods of test - Adhesion (cross-cut)).

Remove all existing coatings exhibiting poor adhesion, cracking, peeling, or flaking by MBX® Bristle Blaster®, power sanding, scraping, wire brushing, or grit blast to leave a clean surface. Fill any edges of the surrounding sound paint to completely remove visual ridges and remove debris. Any major design faults leading to structural failure must be corrected prior to repainting.

Horizontal surfaces can be shot or track blasted or diamond ground to remove all unsound material and provide a key for the new coating system.

NEW CONCRETE

Green concrete has high moisture content and is very highly alkaline. Concrete must be fully cured for 28 days as per AS 2311 “Painting of Buildings” before application of coatings. Off form concrete should be installed as per AS3610 “Control of Concrete Surfaces – Formwork” and AS 3850 2 “Fill Up Concrete & Pre Cast Elements for use in Buildings”.

Remove grease, form oils and release agents with DULUX AcraTex 400-4 Tilthawk applied by airless spray or a low pressure knapsack spray unit as per the Tilthawk data sheet. Rinse clean with fresh potable water – if the surface beads, repeat the Tilthawk process. Shiny surfaces should be roughened by sweep blasting. Embedded steel such as nails, chair legs or tie wires lying close the surface should be picked out and the concrete repaired with a low shrink repair mortar such as PARCHEM Rendecor HB40 (refer to your PARCHEM Consultant). Ensure that the surface is dry, clean and free from contaminants before painting. Remove laitance, the powdery layer that appears on concrete. This is cement dust, lime and sand fines and must be removed by sweep blasting or other mechanical means.

Check the moisture level of the concrete; observe any condensation that appears on the underside of a 200 micron polyethylene plastic sheet (45 cm x 45 cm) taped firmly onto the surface and left for 12 to 16 hours. If condensation is present, or the concrete looks dark and wet underneath the plastic, it is unsuitable to paint. Allow the concrete to dry out and recheck. If there is an ongoing moisture problem, consult an engineer for advice on rectifying the moisture. Even low levels of moisture moving through concrete exerts considerable hydrostatic pressure, causing applied coatings to blister off.

Dulux Protective Coatings – Water & Wastewater Treatment
GUIDE FOR POTABLE WATER CATCHMENT AND TREATMENT

The following is intended as a guide only. To provide total asset protection including tailor made and detailed specifications for your plant, please call your DULUX Protective Coatings Technical Consultant.

### PUMPING STATION - STEEL EXTERNAL
Preparation: Ref. AS1627.4, Sa 2 ½
1st coat DULUX Zincanode® 402 @ 75µm
2nd coat DULUX Durebild® STE @ 150µm
3rd coat DULUX Weathermax® HBR @ 100µm

### FLOCCULATION TANK - CONCRETE EXTERNALS
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Weathermax® HBR @ 100µm

### FLOCCULATION TANK - CONCRETE INTERNALS
Preparation: Whip abrasive blast. Fill voids with epoxy filler.
Filter DULUX Luxepoxy Filler
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Flexituff® @ 250µm

### DISTRIBUTION PIPES - CONCRETE EXTERNALS
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Weathermax® HBR @ 100µm

### DISTRIBUTION PIPES - STEEL EXTERNALS
Preparation: Ref. AS1627.4, Sa 2 ½
1st coat DULUX Zincanode® 402 @ 75µm
2nd coat DULUX Durebild® STE @ 150µm
3rd coat DULUX Weathermax® HBR @ 100µm

### DISTRIBUTION PIPES - STEEL INTERNALS
Preparation: Ref. AS1627.4, Sa 2 ½
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Durebild® TLE @ 125µm

### SETTLEMENT TANK - STEEL EXTERNALS
Preparation: Ref. AS1627.4, Sa 2 ½
1st coat DULUX Zincanode® 402 @ 75µm
2nd coat DULUX Durebild® STE @ 150µm
3rd coat DULUX Weathermax® HBR @ 100µm

### SETTLEMENT TANK - STEEL INTERNALS
Preparation: Ref. AS1627.4, Sa 3
1st coat DULUX Durebild® P14 @ 50µm
2nd coat DULUX Flexituff® @ 250µm

### SETTLING – CONCRETE EXTERNALS
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Weathermax® HBR @ 100µm

### SETTLING – CONCRETE INTERNALS
Preparation: Whip abrasive blast. Fill voids with epoxy filler.
Filter DULUX Luxepoxy Filler
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Flexituff® @ 250µm

### CLARIFIERS - CONCRETE EXTERNALS
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Weathermax® HBR @ 100µm

### CLARIFIERS - CONCRETE INTERNALS
Preparation: Whip abrasive blast. Fill voids with epoxy filler.
Filter DULUX Luxepoxy Filler
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Flexituff® @ 250µm

### CLARIFIERS - STEEL EXTERNALS
Preparation: Ref. AS1627.4, Sa 2 ½
1st coat DULUX Zincanode® 402 @ 75µm
2nd coat DULUX Durebild® STE @ 150µm
3rd coat DULUX Weathermax® HBR @ 100µm

### CLARIFIERS - STEEL INTERNALS
Preparation: Ref. AS1627.4, Sa 3
1st coat DULUX Durebild® P14 @ 50µm
2nd coat DULUX Flexituff® @ 250µm

### DISINFECTION - CONCRETE EXTERNALS
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Weathermax® HBR @ 100µm

### DISINFECTION - CONCRETE INTERNALS
Preparation: Whip abrasive blast. Fill voids with epoxy filler.
Filter DULUX Luxepoxy Filler
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Flexituff® @ 250µm

### DISINFECTION - STEEL EXTERNALS
Preparation: Ref. AS1627.4, Sa 2 ½
1st coat DULUX Zincanode® 402 @ 75µm
2nd coat DULUX Durebild® STE @ 150µm
3rd coat DULUX Weathermax® HBR @ 100µm

### DISINFECTION - STEEL INTERNALS
Preparation: Ref. AS1627.4, Sa 3
1st coat DULUX Durebild® HSE @ 250µm
2nd coat DULUX Durebild® HSE @ 250µm

### POTABLE WATER PIPES – STEEL INTERNALS
Preparation: Ref. AS1627.4, Sa 3
1st coat DULUX Durebild® TLE @ 125µm
2nd coat DULUX Durebild® HSE @ 250µm

### POTABLE WATER TANKS – CONCRETE EXTERNALS
Preparation: Whip abrasive blast
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Weathermax® HBR @ 100µm

### POTABLE WATER TANKS – CONCRETE INTERNALS
Preparation: Whip abrasive blast. Fill voids with epoxy filler.
Filter DULUX Luxepoxy Filler
1st coat DULUX Durebild® STE @ 150µm
2nd coat DULUX Flexituff® @ 250µm

### POTABLE WATER TANKS – STEEL EXTERNALS
Preparation: Ref. AS1627.4, Sa 2 ½
1st coat DULUX Zincanode® 402 @ 75µm
2nd coat DULUX Durebild® STE @ 150µm
3rd coat DULUX Weathermax® HBR @ 100µm

### POTABLE WATER TANKS – STEEL INTERNALS
Preparation: Ref. AS1627.4, Sa 3
1st coat DULUX Durebild® HSE @ 250µm
2nd coat DULUX Durebild® HSE @ 250µm

### WALKWAYS, HANDRAILS - STEEL
Preparation: Ref. AS1627.4, Sa 2.5 (75-100 µm profile)
1st coat DULUX Zincanode® 402 @ 75µm
2nd coat DULUX Durebild® HSE @ 250µm
3rd coat DULUX Durebild® HSE @ 250µm

### PIPELINE COLOUR CODING

**STANDARD PIPELINE IDENTIFICATION COLOURS**

Standards Australia References: AS 1345 and AS 2700

- **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