

GUIDE TO AS/NZS 2312.1:2014

Protecting Australasia's assets.



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ABOUT THIS GUIDE

This Guide is intended as a companion to the Australian/New Zealand Standard, AS/NZS2312.1: 2014, “Guide to the protection of steel against atmospheric corrosion by the use of protective Coatings”. The Standard is available from SAI Global via their on-line shop at <http://infostore.saiglobal.com/store>. This Guide is produced under copyright licence 1703-c093 from SAI Global.

ABOUT THE PROTECTION OF STEEL

Unprotected steel will rapidly corrode in the presence of moisture, airborne salts and oxygen. The closer the steel is to the coast, the higher the corrosivity and the faster the steel corrodes. When steel is galvanised, the galvanising (zinc) layer offers “sacrificial corrosion protection” to the steel; the zinc layer corrodes in preference to the steel until all the zinc has rusted away and the underlying steel is exposed. Zinc rich primers work the same way, as the zinc metal in the applied coating oxidises in preference to the underlying steel. The only way of preventing corrosion is to exclude moisture, airborne salts and oxygen from the steel (or zinc) with a **BARRIER COAT**.

DESCRIPTION OF ENVIRONMENT

The most important selection criterion for a corrosion protection system is the **environment** in which your project is exposed. AS/NZS2312.1: 2014 is a comprehensive guide to the protection of steel based on “**atmospheric corrosivity categories**”. These categories describe six environments from “very high” corrosivity (i.e. beachfront areas and near chemical plants) to “very low” corrosivity.

ATMOSPHERIC CORROSIVITY CATEGORIES BASED ON AS/NZS 2312.1:2014

Category	Corrosivity	Description (For full details on Atmospheric Corrosivity Categories, please refer to AS/NZS 2312.1:2014 Section 2.3)
C1	Very Low	Environments in this category are most commonly found inside heated or air conditioned buildings with clean atmospheres, such as most commercial buildings. They may also be found in semi-sheltered locations remote from marine or industrial influence and in unheated or non-air conditioned buildings.
C2	Low	Dry, rural areas and other regions remote from the coast or sources of pollution and most areas of Australia and New Zealand beyond at least 50 km from the sea. Can extend as close as one kilometre from seas that are sheltered and quiet. Typical areas occur in arid and rural inland regions, most inland cities and towns such as Canberra, Ballarat, Toowoomba, Alice Springs and Hamilton (NZ), and suburbs of cities on sheltered bays, such as Melbourne and Hobart. Unheated or non-air conditioned buildings, where some condensation may occur, such as warehouses and sports halls, can be in this category.
C3	Medium	Coastal areas with low salinity. Varies significantly with factors such as winds, topography and vegetation. Extends beyond about 50 m from the shoreline to about one kilometre inland around sheltered seas, such as Port Philip Bay. For less sheltered bays, such as near Adelaide, this category extends from 100 metres from the shoreline to about 3 to 6 km inland. Along ocean front areas with breaking surf and significant salt spray, it extends from about 1 kilometre inland to between 10 to 50 km inland, depending on the strength of prevailing winds and topography such as in central areas of Wollongong, Sydney, Newcastle, the Gold Coast, Auckland and Wellington. In South Australia, the whole of the Yorke Peninsula falls within this or a more severe category, and in the south-east of the state, from Victor Harbour to the Victorian border, this category extends between 30 and 70 km inland. Such regions are also found in urban and moderate industrial areas for several kilometres around major industries, such as smelters and steelworks, and in the geothermal areas of New Zealand. Interior environments with include humid production rooms, such as food-processing plants, laundries, breweries, printing works and dairies.
C4	High	This category occurs mainly on the coast. Around sheltered bays, Category C4 extends up to 50 m inland from the shoreline. In areas with rough seas and surf, it extends from about several hundred metres inland to about one kilometre inland. The extent depends on winds, wave action and topography. This category includes industrial regions in Australia and New Zealand within 1.5 km of the plant. This category extends to micro-environments inside the plant. Damp, contaminated interior environments such as occur with swimming pools, dye works, paper manufacturers, foundries, smelters and chemical processing plants may also extend into this category.
C5-I	Very high industrial	This category may be found in aggressive industrial areas, where the environment may be acidic with a pH of less than 5. Some of the damp and/or contaminated interior environments in Category C4 may occasionally extend into this category.
C5-M	Very high marine	This category is common offshore and on the beachfront in regions of rough seas and surf beaches. The region can extend inland for several hundred metres. (In some areas of Newcastle, for example, it extends more than half a kilometre from the coast.)
T	Inland Tropical	Coastal areas of north Queensland, Northern Territory, north-west Western Australia, Papua New Guinea and the Pacific Islands, except where affected by salinity. Corrosivity in inland regions is generally low (similar to that of Category C2), but the aggressiveness of the environment to organic coatings means durability is lower than for the C2 category.

1st COAT – THE PRIMER The primer provides tenacious adhesion to the steel, and in the case of anti-corrosion primers, corrosion protection. Preferred anti-corrosion primers are zinc-rich primers (containing high levels of zinc metal), which, when in direct contact with the steel surface, provide high performance galvanic corrosion protection equivalent to, if not greater than, hot dipped galvanising.

2ND COAT – THE INTERMEDIATE COAT The intermediate coat provides a barrier to moisture, ions and oxygen. Usually this coating is epoxy based, due to the exceptional cohesive strength and impermeability of epoxies. Epoxies are generally more economical than other high performance two packs per square metre. Epoxies, however, tend to surface chalk when exposed to UV light (sunlight) and therefore require a UV resistant topcoat where aesthetics are important.

3RD COAT – THE TOPCOAT The topcoat provides UV protection for the intermediate coat. Areas subject to high public scrutiny such as commercial building facades also require high visual impact and long term durability. Topcoats can also provide other properties such as “Graffiti Resistance.”

PRODUCT SELECTION GUIDE BASED ON AS/NZS 2312.1:2014 TABLE 6.3[‡]

COATING SYSTEMS FOR ATMOSPHERIC ENVIRONMENTS

COATING SYSTEM DETAILS													DURABILITY ⁵ — Years to first maintenance						
System	ISO 12944-5 designation ¹	Surface Prep	1 st Coat			2 nd Coat			3 rd Coat			Total nom DFT µm	Atmospheric corrosivity category						
			Product	PRN	Nom DFT µm	Product	PRN	Nom DFT µm	Product	PRN	Nom DFT µm		C1 Very low	C2 Low	C3 Med	C4 High	C5-I Very high industrial	C5-M Very high marine	T Inland Tropical
ACRYLIC — Latex, single pack																			
ACL1	A1.08	St 3	Metalshield [®] HB ZP	C05	40	Weathershield [®] Gloss	C21	40	Weathershield Gloss	C21	40	120	15+	5-15	2-5	—	—	—	2-5
ACL2		Sa 2½	Durezinc [™] i90	C01	75	Weathershield Gloss	C21	40	Weathershield Gloss	C21	40	155	25+	15-25	10-15	5-10	2-5	2-5	10-15
ACL3	Sa 2½	Sa 2½	Zincanode [®] 402	C02	75	Duremax [®] GPE Duremax GPE MIO [‡] Ferrekko No. 3 [‡]	C13	125	Weathershield Gloss	C21	40	240	*	25+	15-25	10-15	5-10	5-10	15-25
			Durezinc i90	C01															
ACL4	Sa 2½	Sa 2½	Duremax GFX Durebild [®] STE GF	C13a	250	Weathershield Gloss	C21	40 ²				290	25+	15-25	10-15	5-10	2-5	2-5	10-15
ACRYLIC — Two pack, solvent-borne																			
ACC1		St 3	Durebild STE	C32	125	Acrathane [®] IF	C33	50 ²	—	—	—	175	25+	10-25	5-10	2-5	—	—	5-10
ACC2	Sa 2½	Sa 2½	Zincanode 402	C02	75	Acrathane IF	C33	50 ²	—	—	—	125	25+	15-25	10-15	5-10	2-5	2-5	10-15
			Durepon [®] EZP	C06															
ACC4	Sa 2½	Sa 2½	Zincanode 402 Durepon EZP	C02 C06	75	Duremax GPE Duremax GPE MIO [‡] Ferrekko No. 3 [‡]	C13	125	Acrathane IF	C33	50 ²	250	*	25+	15-25	10-15	5-10	5-10	15-25
ACC5	Sa 2½	Sa 2½	Durezinc i90 Zincanode 402	C01 C02	75	Duremax GPE Duremax GPE MIO [‡] Ferrekko No. 3 [‡]	C13	125	Acrathane IF	C33	50 ²	250	*	25+	15-25	10-15	5-10	5-10	15-25
ACC6	Sa 2½	Sa 2½	Durezinc i90	C01	75	Duremax GFX [‡] Duremax GPE MIO [‡]	C13	200	Acrathane IF	C33	50 ²	325	*	25+	25+	25+	5-10	15-25	25+
			Zincanode 402	C02															
ALKYD																			
ALK1		St 3/Sa 2	Metalshield HB ZP	C05	40	—	—	—	—	—	—	40	5+	0-5	—	—	—	—	—
ALK3		St 3/Sa 2	Luxaprime [®] ZP	C04	75	Metalshield Premium	C20	40 ²	—	—	—	115	15+	5-15	2-5	—	—	—	2-5
ALK6		St 3/Sa 2	Metalshield HB ZP	C05	40	Ferrodor [®] 810	C17	40	Ferrodor 810	C17	40	120	25+	10-25	5-10	2-5	—	—	5-10

PRODUCT SELECTION GUIDE BASED ON AS/NZS 2312.1:2014 TABLE 6.3[‡]

COATING SYSTEM DETAILS													DURABILITY ⁵ — Years to first maintenance						
System	ISO 12944-5 designation ¹	Surface Prep	1 st Coat			2 nd Coat			3 rd Coat			Total nom DFT µm	Atmospheric corrosivity category						
			Product	PRN	Nom DFT µm	Product	PRN	Nom DFT µm	Product	PRN	Nom DFT µm		C1 Very low	C2 Low	C3 Med	C4 High	C5-I Very high industrial	C5-M Very high marine	T Inland Tropical
EPOXY — Very High build (DFT: 250 TO 500 µm per coat)																			
EVH1		Sa 2½	Duremax GFX Duremax HBE	C13a	250	—	—	—	—	—	—	250	25+	15-25	10-15	5-10	2-5	2-5	5-10
EVH2	A1.26	Sa 2½	Duremax GFX Duremax HBE	C13a	400	—	—	—	—	—	—	400	*	25+	15-25	10-15	5-15	5-15	10-15
EVH3		Sa 2½	Durepon EZP	C06	75	Duremax GFX [‡] Duremax HBE	C13a	400	—	—	—	475	*	25+	15-25	10-15	5-15	5-15	10-15
EPOXY — High build (DFT: 125 TO 200 µm per coat)																			
EHB3	A1.21	Sa 2½	Durepon EZP	C06	75	Duremax GFX [‡] Duremax GPE MIO [‡]	C13	200	—	—	—	275	*	15-25	10-15	5-10	2-5	2-5	5-10
EHB4		Sa 2½	Durezinc i90 Zincanode 402	C01 C02	75	Duremax GFX [‡] Duremax GPE MIO [‡]	C13	200	—	—	—	275	*	25+	15-25	10-15	5-10	5-10	10-15
EHB5		Sa 2½	Durepon EZP	C06	75	Duremax GPE MIO [‡] Ferrekko No. 3 [‡]	C13	125	Duremax GPE MIO [‡] Ferrekko No. 3 [‡]	C13	125	325	*	25+	15-25	10-25	10-15	10-15	10-15
EHB6		Sa 2½	Durezinc i90 Zincanode 402	C01 C02	75	Duremax GPE MIO [‡] Ferrekko No. 3 [‡]	C13	125	Duremax GPE MIO [‡] Ferrekko No. 3 [‡]	C13	125	325	*	25+	25+	25+	10-15	15-25	10-25
EPOXY MASTIC — Surface tolerant																			
EPM2		St 3	Durebild STE	C32	75	Durebild STE	C32	75	—	—	—	150	25+	10-25	5-10	2-5	—	—	5-10
EPM3		St 3	Durebild STE	C32	200	Durebild STE	C32	200	—	—	—	400	*	15-25	10-15	5-10	2-5	2-5	10-15
INORGANIC ZINC SILICATE (see Note 4)																			
IZS1	A4.16	Sa 2½	Durezinc i90	C01a	75	—	—	—	—	—	—	75	25+	25+	15-25	10-15	2-5	5-10	15-25
IZS4		Sa 2½	Durezinc i90	C01a	125	—	—	—	—	—	—	125	25+	25+	25+	15-25	5-10	10-15	25+

PRODUCT SELECTION GUIDE BASED ON AS/NZS 2312.1:2014 TABLE 6.3[‡]

COATING SYSTEM DETAILS													DURABILITY ⁵ — Years to first maintenance						
System	ISO 12944-5 designation ¹	Surface Prep	1 st Coat			2 nd Coat			3 rd Coat			Total nom DFT µm	Atmospheric corrosivity category						
			Product	PRN	Nom DFT µm	Product	PRN	Nom DFT µm	Product	PRN	Nom DFT µm		C1 Very low	C2 Low	C3 Med	C4 High	C5-I Very high industrial	C5-M Very high marine	T Inland Tropical
POLYURETHANE — Two pack, solvent-borne																			
PUR1		St 3	Durebild STE	C32	125	Luxathane HPX Weathermax [®] HBR	C26 C15 [‡]	50 ² 75	—	—	—	175	*	10-15	5-10	2-5	—	—	5-15
PUR2	A1.15	Sa 2½	Durepon EZP	C06	75	Luxathane HPX Weathermax HBR	C26 C15 [‡]	50 ² 75	—	—	—	125	25+	10-25	5-10	2-5	—	—	5-15
PUR2a	A1.17	Sa 2½	Durezinc i90 Zincanode 402	C01a C02	75	Weathermax HBR	C15	75	—	—	—	150	25+	15-25	10-15	5-10	2-5	2-5	10-15
PUR3	A4.08	Sa 2½	Durepon EZP	C06	75	Duremax GPE	C13	125	Luxathane HPX Weathermax HBR	C26 C15 [‡]	50 ² 75	250 275 [‡]	*	25+	15-25	10-15	5-10	5-10	15-25
PUR4	A1.20	Sa 2½	Durezinc i90 Zincanode 402	C01a C02	75	Duremax GPE	C13	125	Luxathane HPX Weathermax HBR	C26 C15 [‡]	50 ² 75	250 275 [‡]	*	25+	15-25	10-15	5-10	5-10	15-25
PUR5	A1.23	Sa 2½	Durezinc i90 Zincanode 402	C01a C02	75	Duremax GFX [‡]	C13	200	Luxathane HPX Weathermax HBR	C26 C15 [‡]	50 ² 75	325 350	*	25+	25+	25+	15-25	15-25	25+
PUR6		St 3	Durebild STE	C32	75	Duremax GPE	C13	75	Weathermax HBR	C15	75	225	*	15-25	10-15	5-10	2-5	2-5	5-15
PUR7	A1.19 A1.20	Sa 2½	Zincanode 402	C02	75	Duremax GPE	C13	75	Weathermax HBR	C15	75	225	*	25+	15-25	10-15	5-10	5-10	10-15

* While this system would have very high durability in this atmospheric category, it is unlikely that it would be economic.

‡ Variation from AS2312:2014 offering extended durability above that quoted in the table

LEGEND:

PRN = Paint reference number (see Appendix D)

DFT = Dry film thickness

Sa, St — See ISO 8501-1

NOTES TO TABLE 6.3:

- ISO 12944-5:2007 equivalent designation (to within ±25 µm total DFT). The durability given in ISO 12944-5 of ISO equivalent may be different.
- Some colour finishes may require multiple coats to achieve opacity.
- Any materials used in contact with potable water should meet the requirements of AS/NZS 4020.
- The use of 'stripe' coatings applied by brush to edges, welds, seams, etc. before each coat application is a recognized sound practice.
- Durability is defined in AS2312.1:2014 as "The time elapsed before the first major maintenance (recoating or patch repairs, see AS2312.1:2014 Section 8) of a coating system becomes necessary, to arrest corrosion".

PRODUCT SELECTION GUIDE BASED ON AS/NZS 2312.1:2014 TABLE C1[‡]

COATING SYSTEMS FOR NON-ATMOSPHERIC ENVIRONMENTS

COATING SYSTEM DETAILS

System	Surface preparation	1 st Coat			2 nd Coat			3 rd Coat			Total nom. DFT μm	Remarks
		Product	PRN	Nom. DFT μm	Product	PRN	Nom. DFT μm	Product	PRN	Nom. DFT μm		
Environment: Potable water immersion (See Note 3)												
EHB7	Sa 3 (profile 50–75 μm)	Duremax GPE	C13	150	Duremax GPE	C13	150	—	—	—	300	See Notes 3, 4, 5 and 6
EVH2a	Sa 3 (profile 50–75 μm)	Duremax HBE	C13a	400	—	—	—	—	—	—	400	See Notes 3 and 6
EVH3a	Sa 3 (profile 50–75 μm)	Duremax HBE	C13a	250	Duremax HBE	C13a	250	—	—	—	500	See Notes 3, 4, 5 and 6.
PUE1	Sa 3 (profile 75–100 μm)	Flexituff®	C43	1000	—	—	—	—	—	—	1000	See Notes 3 and 6
Environment: Seawater immersion												
EUH2	Sa 2½ (profile 75–100 μm)	Luxepoxy® UHB	C34	1500	Luxepoxy UHB	C34	1500	—	—	—	3000	See Notes 4, 5 and 6
EVH2	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	400	—	—	—	—	—	—	400	See Note 6
EVH3	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	—	—	—	500	See Notes 4, 5 and 6
Environment: Seawater splash												
EUH3	Sa 2½ (profile 75–100 μm)	Luxepoxy UHB	C34	1000	—	—	—	—	—	—	1000	See Note 6
EVH2	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	400	—	—	—	—	—	—	400	See Note 6
EVH3	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	—	—	—	500	See Notes 4, 5 and 6

PRODUCT SELECTION GUIDE BASED ON AS/NZS 2312.1:2014 TABLE C1[‡]

COATING SYSTEMS FOR NON-ATMOSPHERIC ENVIRONMENTS

COATING SYSTEM DETAILS

System	Surface preparation	1 st Coat			2 nd Coat			3 rd Coat			Total nom. DFT μm	Remarks
		Product	PRN	Nom. DFT μm	Product	PRN	Nom. DFT μm	Product	PRN	Nom. DFT μm		
Environment: Soil												
EUH4	Sa 2½ (profile 75–100 μm)	Luxepoxy UHB	C34	1200	Luxepoxy UHB	C34	1200	—	—	—	2400	See Notes 5 and 6
EVH2	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	400	—	—	—	—	—	—	400	See Note 6
EVH3	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	—	—	—	500	See Notes 4, 5 and 6
PUE2	Sa 3 (profile 75–100 μm)	Flexituff	C43	2500	—	—	—	—	—	—	2500	See Note 6
Environment: Hot water												
HWE1	Sa 2½ (profile 30–50 μm)	Durebild TLE	—	100	Durebild TLE	—	100	Durebild TLE	—	100	300	See Notes 4, 5 and 6 Note: suitable for hot water immersion up to 100°C †
HR10	Sa 2½ (profile 30–50 μm)	Durekem® MPP	—	100	Durekem MPP	—	100	—	—	—	200	Note: suitable for hot water immersion up to 100°C. Not for use under insulation. †
Environment: Sewage immersion												
EUH4	Sa 2½ (profile 75–100 μm)	Luxepoxy UHB	C34	1200	Luxepoxy UHB	C34	1200	—	—	—	2400	See Notes 4, 5 and 6
EVH2	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	400	—	—	—	—	—	—	400	See Note 6
EVH3	Sa 2½ (profile 50–75 μm)	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	—	—	—	500	See Notes 4, 5 and 6
PUE3	Sa 3 (profile 75–100 μm)	Flexituff	C43	2000	—	—	—	—	—	—	2000	See Note 6

PRODUCT SELECTION GUIDE BASED ON AS/NZS 2312.1:2014 TABLE C1[‡]

COATING SYSTEMS FOR NON-ATMOSPHERIC ENVIRONMENTS

COATING SYSTEM DETAILS

System	Surface preparation	1 st Coat			2 nd Coat			3 rd Coat			Total nom. DFT μm	Remarks
		Product	PRN	Nom. DFT μm	Product	PRN	Nom. DFT μm	Product	PRN	Nom. DFT μm		
Environment: Severe industrial — Acid splash												
CLR3	Sa 2½ (profile 30–50 μm)	Durepon EZP	C06	75	Ferreko® No. 6	C14	125	Luxachlor Finish	C25	50#	275	See Notes 4 and 5
Environment: Severe industrial — Alkaline splash												
EUH5	Sa 2½ (profile 75–100 μm)	Luxepoxy UHB	C34	2000	—	—	—	—	—	—	2000	See Note 4
EVH4	Sa 2½ (profile 30–50 μm)	Durepon EZP	C06	75	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	Duremax GFX Durebild STE GF Duremax HBE	C13a	250	575	See Notes 4 and 5
Environment: Severe industrial — Solvent												
IZS1, 4 IZS2, 3	Sa 2½ (profile 30–50 μm)	Durezinc i90	C01	75 125	—	—	—	—	—	—	75 125	—
ETL1	Sa 2½ (profile 30–50 μm)	Duremax HBE	—	200	Duremax HBE	—	200	—	—	—	400	See Notes 4, 5 and 6
Epoxy phenolic	Sa 3 (profile 50–75 μm)	Durekem MPP	—	90	Durekem MPP	—	90	Durekem MPP	—	90	270	See Notes 4, 5 and 6

NOTES TO TABLE C1:

- 1** The Paint Reference Number (PRN) indicated is chosen from the allocations for atmospheric categories, or is a near approximation. The coatings required for acceptable performance in the nominated environments are usually highly specialized and the PRN's are indicative only. Confirm with Dulux Protective Coatings.
- 2** The level of surface roughness (profile) varies according to the type of coating. The requirement for each coating system should be verified with Dulux Protective Coatings.
- 3** Any materials used in contact with potable water should meet the requirements of AS/NZS 4020.
- 4** The use of 'stripe' coatings applied by brush to edges, welds, seams, etc. before each coat application is a recognized sound practice.
- 5** It is recommended that each coat be given a different colour.
- 6** High voltage continuity testing in accordance with AS 3894.1 or as recommended by Dulux Protective Coatings.

PAINT REFERENCE NUMBERS (PRNS) AND COLOUR AVAILABILITY

Paint Ref No. (PRN)	Generic Description	Product Name	Data Sheet	Description	DFT Range	Colour Range
C01	Inorganic Zinc Silicate paint	Durezinc i90	PC149	Solvent borne ethyl silicate with high metallic zinc content	75 – 90	☐
C02	Organic zinc primer	Zincanode 402	PC122	Two pack epoxy zinc rich primer	75 – 125	■
C04	High-build alkyd primer	Luxaprime ZP	PC612	High build anti-corrosive primer/finish containing micaceous iron oxide	75	■
C05	Alkyd Primer	Metalshield HB ZP Primer	LI004	Fast drying high build anti-corrosive primer	40 – 75	■
C06	Epoxy Primer (2 Pack)	Durepon EZP	PC206	High performance anti corrosive epoxy primer	75	■
C13	High-Build Epoxy (2 Pack)	Duremax GPE	PC255	High build general purpose epoxy	100 – 200	■
		Duremax GPE MIO	PC255	High build epoxy with micaceous iron oxide for superior protection	100 – 200	■
		Ferreko No. 3	PC560	High build epoxy with high micaceous iron oxide content	90 – 125	■
C13a	Very high build epoxy (2-pack)	Duremax GFX	PC256	High glass flake epoxy providing enhanced build and barrier properties	200 – 500	■
		Durebild STE GF	PC239	Glass flake reinforced epoxy providing enhanced build properties	200 – 500	■
		Duremax HBE	PC257	High solids epoxy	250 – 500	■
C15	High-Build Polyurethane	Weathermax HBR	PC405	High build high performance polyurethane for brush and roller application	75 – 125	■
C17	Alkyd Micaceous Iron Oxide	Ferrodor 810	PC552	Single pack alkyd coating with micaceous iron oxide	40 – 60	■
C20	Gloss Alkyd Paint	Metalshield Premium	PC655	Single pack silicone modified alkyd finish with excellent gloss retention	40 – 60	■
C21	Acrylic Latex Paint	Weathershield Gloss	D0054	Water borne acrylic gloss coating	40	■
		Ferreko No. 5	PC570	Water borne acrylic micaceous iron oxide coating	40 – 60	■
C24	Two Pack Epoxy Gloss	Epigloss 4 Finish	PC223	High gloss epoxy finish	40 – 75	■
C25	Chlorinated Rubber Gloss	Luxachlor Finish	PC524	Chlorinated rubber finish	40 – 60	■
C26	Polyurethane Gloss (2 Pack)	Luxathane R	PC402	Very durable polyurethane finish	50 – 60	■
		Luxathane HPX	PC403	Highly durable polyurethane finish	50 – 75	■
		Quantum 221	PC431	Ultra durable polyurethane finish	50 – 60	■
C32	Epoxy Mastic	Durebild STE	PC237	Two pack surface tolerant epoxy	100 – 210	■
C33	Two Pack Acrylic Gloss	Acrathane IF	PC218	High gloss isocyanate free finish	50 – 70	■
C34	Epoxy Ultra High-Build (UHB)	Luxepoxy UHB	PC240	Two pack solventless epoxy - able to build to 5000 microns in one coat	2,000 – 5,000	■
C43	Elastomeric Polyurea	Flexituff	PC390	Two pack polyurea elastomer with extremely high tensile strength	1,000 – 10,000	■

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| ■ Available in the full range of colours | ■ Limited range of factory packaged colours only |
| ■ Available in a limited range of tinted, factory packaged and made-to-order colours | ■ MIO colour(s) only |
| ■ Available in white and/or limited factory packaged colours and made-to-order colours | ☐ One colour only |

NOTES TO THIS GUIDE

- 1** This document is intended as a guide only and cannot be expected to cover every microclimate and situation. We cannot warrant that it is free from error or that it complete or up to date. 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.
- 2** Some colour finishes may require multiple coats to achieve opacity. Opacity varies with the level and type of pigments in the base material, the opacity of the tinters, and the quantity of each tinter added to the base material.
- 3** Dulux recommends using a sealer/tie coat between Inorganic Zinc Silicate primers (AS2312 Paint Reference No.C01) and Catalysed Acrylics topcoats (AS2312 Paint Reference No.C33). For further details contact your DULUX Protective Coatings Representative.
- 4** The nominated DFT's and products quoted are those required to achieve compliance to AS2312 - refer to the relevant Dulux Product Data Sheets for the normally recommended DFT ranges for each product. Contact your DULUX Protective Coatings Consultant to ensure the selected system is appropriate for the specific project requirements. The DULUX Protective Coatings Representative can also provide tailored specifications on request. To view the most up to date Product Data Sheets visit www.duluxprotectivecoatings.com.au.
- 5** Durability is defined in AS/NZS 2312.1:2014 as "The time elapsed before the first major maintenance (recoating or patch repairs, see AS/NZS 2312.1:2014 Section 8) of a coating system becomes necessary, to arrest corrosion". An owner concerned about long-term durability of a coating system should consider taking out a maintenance contract as per Dulux' recommendations. The durability range is not a 'warranty time'. Refer to AS/NZS2312.1:2014 for more details or contact your DULUX Protective Coatings Representative.

ABBREVIATIONS

- PRN** Paint Reference Number (See AS2312.1:2014 Appendix D for descriptions)
- DFT** Dry Film Thickness
- Sa, St** See AS1627.9

DISCLAIMER

Any advice, recommendation, information, assistance or service provided by Dulux Protective Coatings in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux Protective Coatings to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux Protective Coatings is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the right entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux Protective Coatings by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance void or prohibiting such exclusion limitation or modification. Products can be expected to perform as indicated in this document provided that applications and application procedures are as recommended on relevant data sheets. Specific advice should be sought from a Dulux Protective Coatings Specification Consultant for application in chemically diverse or demanding environments or for off-shore structures or for very large projects to ensure most appropriate specifications are documented and used.

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