



DULUX PROTECTIVE COATINGS

Guide to AS/NZ 2312:2002 Table 6.3 - Coating Systems for Steel

COATING SYSTEM DETAILS													Durability - Years to first maintenance						
System Designation		Surface Prep	1 st Coat			2 nd Coat			3 rd Coat			Total Nom DFT (µm) ⁴	Atmospheric corrosivity category ⁵						
AS2312: 2002	AS2312: 1998		Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴		A	B	C	D	E-I	E-M	F
													Very Low	Low	Med	High	Very High Industrial	Very High Marine	Inland Tropical
ACRYLIC – Latex, Single Pack																			
ACL1	-	St 2	Metalshield HB ZP Primer	C05	40	Weathershield Ferreko No. 5	C21	40	Weathershield Ferreko No. 5	C21	40	120	15-25	5-15	2-5	2-5	-	-	2-5
ACL2	MP2-A	Sa 2½	Zincanode 304 Aquagalv	C01	75	Weathershield Ferreko No. 5	C21	40	Weathershield Ferreko No. 5	C21	40	155	25+	15-25	10-15	5-10	2-5	2-5	10-15
	MP2-C		Zincanode 402 Zincanode 202	C02															
ACL3	LP4-A	Sa 2½	Zincanode 304 Aquagalv	C01	75	Duremax GPE	C13	125	Weathershield Ferreko No. 5	C21	40	240	★	25+	15-25	10-15	5-10	5-10	15-25
			Zincanode 402 Zincanode 202	C02															
ACRYLIC – Two Pack Solvent Borne																			
ACC1	-	St 2	Durebild STE	C32	125	Acrathane IF ¹	C33	50	-	-	-	175	25+	10-25	5-10	2-5	-	-	5-10
ACC2	-	Sa 2½	Zincanode 402 Zincanode 202	C02	75	Acrathane IF ¹	C33	50	-	-	-	125	25+	15-25	10-15	5-10	2-5	2-5	10-15
			Durepon P14	C06															
ACC3 ²	-	Sa 2½	Zincanode 304	C01	75	Acrathane IF ¹	C33	50	-	-	-	125	25+	15-25	10-15	5-10	2-5	2-5	10-15
			Zincanode 402 Zincanode 202	C02															
ACC4	MP5-J	Sa 2½	Zincanode 402 Zincanode 202	C02	75	Duremax GPE	C13	125	Acrathane IF ¹	C33	50	250	★	25+	15-25	10-15	5-10	5-10	15-25
			Durepon P14	C06															
ACC5	MP5-B	Sa 2½	Zincanode 304 Aquagalv	C01	75	Duremax GPE	C13	125	Acrathane IF ¹	C33	50	250	★	25+	15-25	10-15	2-5	5-10	15-25
	MP5-F		Zincanode 402 Zincanode 202	C02															
ACC6	LP6-A	Sa 2½	Zincanode 304 Aquagalv	C01	75	Duremax GPE	C13	200	Acrathane IF ¹	C33	50	325	★	25+	25+	15-25	5-10	10-15	25+
			Zincanode 402 Zincanode 202	C02															

COATING SYSTEM DETAILS													Durability - Years to first maintenance						
System Designation		Surface Prep	1 st Coat			2 nd Coat			3 rd Coat			Total Nom DFT (µm) ⁴	Atmospheric corrosivity category ⁵						
AS2312: 2002	AS2312: 1998		Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴		A	B	C	D	E-I	E-M	F
													Very Low	Low	Med	High	Very High Industrial	Very High Marine	Inland Tropical
ALKYD																			
ALK1	SP1-A	St 2	Metalshield HB ZP Primer	C05	40	-	-	-	-	-	-	40	10+	0-5	-	-	-	-	
ALK2	-	Sa 2½	Luxaprime ZP	C04	75	-	-	-	-	-	-	75	15+	5-15	2-5	-	-	2.5	
ALK3	-	St 2	Luxaprime ZP	C04	75	Metalshield Premium UV Resistant Enamel	C20	40	-	-	-	115	15+	5-15	2-5	-	-	2-5	
ALK4	-	Sa 2½	Luxaprime ZP	C04	75	Metalshield Premium UV Resistant Enamel	C20	40	-	-	-	115	25+	10-25	5-10	2-5	-	5-10	
ALK5	SP5-A	St 2	Metalshield HB ZP Primer	C05	40	Metalshield Premium UV Resistant Enamel	C20	40	Metalshield Premium UV Resistant Enamel	C20	40	120	15+	5-15	2-5	-	-	2-5	
ALK6	SP5-C	St 2	Metalshield HB ZP Primer	C05	40	Ferrodor 810	C17	40	Ferrodor 810	C17	40	120	25+	10-25	5-10	2-5	-	5-10	
CHLORINATED RUBBER																			
CLR1	-	Sa 2½	Luxaprime ZP	C04	75	Luxachlor Finish	C25	50	Luxachlor Finish	C25	50	175	25+	15-25	10-15	5-10	5-10	-	10-15
CLR2	MP6-B	Sa 2½	Durepon P14	C06	75	Luxachlor Finish	C25	50	Luxachlor Finish	C25	50	175	★	15-25	10-15	5-10	5-10	2-5	10-15
CLR3	-	Sa 2½	Durepon P14	C06	75	Luxachlor HB	C14	100	Luxachlor HB	C14	100	275	★	25+	15-25	10-15	10-15	5-10	15-25

COATING SYSTEM DETAILS													Durability - Years to first maintenance						
System Designation		Surface Prep	1 st Coat			2 nd Coat			3 rd Coat			Total Nom DFT (µm) ⁴	Atmospheric corrosivity category ⁵						
AS2312: 2002	AS2312: 1998		Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴		A	B	C	D	E-I	E-M	F
													Very Low	Low	Med	High	Very High Industrial	Very High Marine	Inland Tropical
EPOXY – HIGH BUILD (DFT: 125 to 500um per coat)																			
EHB1	-	Sa 2½	Durebild STE GF	C13	250	-	-	-	-	-	-	250	25+	15-25	10-15	5-10	2-5	2-5	10-15
EHB2	-	Sa 2½	Durebild STE GF	C13	400	-	-	-	-	-	-	400	★	25+	15-25	10-15	5-15	5-15	10-15
EHB3	MP9-C	Sa 2½	Durepon P14	C06	75	Duremax GPE Durebild HSE	C13	200	-	-	-	275	★	25+	15-25	10-15	5-15	5-15	10-15
EHB4	MP9-A	Sa 2½	Zincanode 304 Aquagalv	C01	75	Duremax GPE Durebild HSE	C13	200	-	-	-	275	★	25+	15-25	10-15	5-10	10-15	10-15
	MP9-B		Zincanode 402 Zincanode 202	C02															
EHB5	LP1-I	Sa 2½	Durepon P14	C06	75	Ferreko No 3 Duremax GPE MIO	C13	125	Ferreko No 3 Duremax GPE MIO	C13	125	325	★	25+	15-25	10-15	10-15	10-15	15-25
EHB6	-	Sa 2½	Zincanode 304 Aquagalv	C01	75	Ferreko No 3 Duremax GPE MIO	C13	125	Ferreko No 3 Duremax GPE MIO	C13	125	325	★	25+	25+	10-25	10-15	10-15	10-15
			Zincanode 402 Zincanode 202	C02															
EPOXY – Ultra High Build																			
EUH1	LP5-A	Sa 2½	Luxepoxy UHB	C34	2000 ³	-	-	-	-	-	-	2000 ³	★	★	★	25+	15-25	15-25	★
EPOXY - Primer/Finish Gloss																			
EPF1	MP5-I	Sa 2½	Durepon P14	C06	75	Duremax GPE	C13	125	Epigloss 4 Finish Luxepoxy T Finish	C24	50	250	★	25+	15-25	10-15	5-15	5-15	10-15
EPOXY MASTIC – Surface Tolerant																			
EPM1	MP8-A	St 2	Durebild STE	C32	200	-	-	-	-	-	-	200	25+	10-25	5-10	2-5	-	-	5-10
EPM2	-	St 2	Durebild STE	C32	75	Durebild STE	C32	75	-	-	-	150	25+	10-25	5-10	2-5	-	-	5-10
EPM3	-	Sa 2	Durebild STE	C32	200	Durebild STE	C32	200	-	-	-	400	★	15-25	10-15	5-10	2-5	2-5	10-15

COATING SYSTEM DETAILS													Durability - Years to first maintenance						
System Designation		Surface Prep	1 st Coat			2 nd Coat			3 rd Coat			Total Nom DFT (µm) ⁴	Atmospheric corrosivity category ⁵						
AS2312: 2002	AS2312: 1998		Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴	Product Name	PRN	Nom DFT (µm) ⁴		A	B	C	D	E-I	E-M	F
													Very Low	Low	Med	High	Very High Industrial	Very High Marine	Inland Tropical
INORGANIC ZINC SILICATE																			
IZS1	MP1-A	Sa 2½	Zincanode 304	C01a	75	-	-	-	-	-	-	75	25+	15-25	10-15	5-10	2-5	2-10	10-15
IZS2	MP1-A	Sa 2½	Aquagalv	C01b C01c	75	-	-	-	-	-	-	75	25+	25+	25+	15-25	2-5	10-15	25+
IZS3	LP3-A	Sa 2½	Aquagalv	C01b C01c	125	-	-	-	-	-	-	125	25+	25+	25+	25+	5-10	15-25	25+
POLYURETHANE – Two Pack, Solvent-Borne																			
PUR1	-	St 2	Durebild STE	C32	125	Luxathane R ¹	C26	50	-	-	-	175	★	10-15	5-10	2-5	-	-	5-15
PUR2	-	Sa 2½	Durepon P14	C06	75	Luxathane R ¹	C26	50	-	-	-	125	★	15-25	10-15	5-10	2-5	2-5	10-15
PUR3	MP5-K	Sa 2½	Durepon P14	C06	75	Duremax GPE	C13	125	Luxathane R ¹	C26	50	250	★	25+	15-25	10-15	5-10	5-10	15-25
PUR4	MP5-D	Sa 2½	Zincanode 304 Aquagalv	C01	75	Duremax GPE	C13	125	Luxathane R ¹	C26	50	250	★	25+	15-25	10-15	5-10	5-10	15-25
			Zincanode 402 Zincanode 202	C02															
PUR5	LP6-B	Sa 2½	Zincanode 304 Aquagalv	C01	75	Duremax GPE	C13	200	Luxathane R ¹	C26	50	325	★	235+	25+	15-25	10-15	10-15	25+
			Zincanode 402 Zincanode 202	C02															
PUR6	-	St 2	Durebild STE	C32	75	Duremax GPE	C13	75	Weathermax HBR	C15	75	225	★	10-15	5-10	2-5	-	-	5-15
PUR7	-	Sa 2½	Zincanode 402 Zincanode 202	C02	75	Duremax GPE	C13	75	Weathermax HBR	C15	75	225	★	15-25	10-15	5-10	2-5	2-5	10-15
VINYL ESTER																			
VES1	LP5	Sa 3	Steelshield 2000	C42	2000 ³	-	-	-	-	-	-	2000³	★	★	★	★	15-25	15-25	★

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

Paint Ref No. (PRN)	Generic Description	Product Name	Data Sheet	Description	Notes
C01	Inorganic Zinc Silicate	Zincanode 304	PC142	Solvent borne ethyl silicate with high metallic zinc content	<input type="checkbox"/>
		Aquagalv	PC154	Water borne ethyl silicate with high metallic zinc content	<input type="checkbox"/>
C02	Organic Zinc Primer	Zincanode 402	PC122	Two pack epoxy zinc rich primer	<input type="checkbox"/>
		Zincanode 202	PC120	Two pack epoxy zinc rich primer	<input type="checkbox"/>
C04	High-Build Alkyd Primer	Luxaprime ZP	PC612	High build anti-corrosive primer/finish containing micaceous iron oxide	<input type="checkbox"/>
C05	Alkyd Primer	Metalshield HB ZP Primer	LI004	Fast drying high build anti-corrosive primer	<input type="checkbox"/>
C06	Epoxy Primer (2 Pack)	Durepon P14	PC206	High performance anti corrosive epoxy primer	<input type="checkbox"/>
C13	High-Build Epoxy (2 Pack)	Duremax GPE	PC255	High build general purpose epoxy	<input type="checkbox"/>
		Duremax GPE MIO	PC255	High build epoxy with micaceous iron oxide for superior protection	<input type="checkbox"/>
		Durebild HSE	PC230	High solids epoxy	<input type="checkbox"/>
		Durebild STE GF	PC239	Glass flake reinforced epoxy providing enhanced build properties	<input type="checkbox"/>
		Ferreko No. 3	PC560	High build epoxy with high micaceous iron oxide content	<input type="checkbox"/>
C14	High Build Chlorinated Rubber	Luxachlor HB	PC522	High build chlorinated rubber coating	<input type="checkbox"/>
C15	High-Build Polyurethane	Weathermax HBR	PC405	High build high performance finish coat for brush and roller application	<input type="checkbox"/>
C17	Alkyd Micaceous Iron Oxide	Ferrodor 810	PC552	Single pack alkyd coating with micaceous iron oxide	<input type="checkbox"/>
C20	Gloss Alkyd Paint	Metalshield Premium UV Resistant Enamel	PC655	Single pack alkyd finish with excellent gloss retention	<input type="checkbox"/>
C21	Acrylic Latex Paint	Weathershield Gloss	D0054	Water borne acrylic gloss coating	<input type="checkbox"/>
		Ferreko No. 5	PC570	Water borne acrylic micaceous iron oxide coating	<input type="checkbox"/>
C24	Two Pack Epoxy Gloss	Epigloss 4 Finish	PC223	High gloss epoxy finish	<input type="checkbox"/>
		Luxepoxy T Finish	PC222	Tintable high gloss epoxy finish	<input type="checkbox"/>
C25	Chlorinated Rubber Gloss	Luxachlor Finish	PC524	Chlorinated rubber finish	<input type="checkbox"/>
C26	Polyurethane Gloss (2 Pack)	Luxathane R	PC402	High gloss polyurethane finish	<input type="checkbox"/>
C32	Epoxy Mastic	Durebild STE	PC237	Two pack surface tolerant epoxy	<input type="checkbox"/>
C33	Two Pack Acrylic Gloss	Acrathane IF	PC218	High gloss isocyanate free finish	<input type="checkbox"/>
C34	Epoxy Ultra High-Build (UHB)	Luxepoxy UHB	PC240	Two pack solventless epoxy - able to build to 5000 microns in one coat	<input type="checkbox"/>
C42	Vinyl Ester Ultra High Build (UHB)	Steelshield 2000	PC350	Vinyl ester - able to build to 3000 microns in one coat	<input type="checkbox"/>

- | | | | |
|--------------------------|--|--------------------------|--|
| <input type="checkbox"/> | Available in the full range of colours | <input type="checkbox"/> | Limited range of factory packaged colours only |
| <input type="checkbox"/> | Available in a limited range of tinted, factory packaged and made-to-order colours | <input type="checkbox"/> | MIO colour(s) only |
| <input type="checkbox"/> | Available in white and/or limited factory packaged colours and made-to-order colours | <input type="checkbox"/> | One colour only |

NOTES

- 1** Some colour finishes may require multiple coats to achieve opacity.
- 2** 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.
- 3** While AS2312 quotes a DFT of 1500 microns, Dulux' minimum recommendation is for a DFT of 2000 microns. Refer to the Product Data Sheet for this material.
- 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 Consultant can also provide tailored specifications on request. To view the most up to date Product Data Sheets visit www.duluxprotectivecoatings.com.au
- 5** For explanations on Atmospheric Corrosivity Categories, please refer to AS2312:2002 Section 2.3.

ABBREVIATIONS

- PRN** Paint Reference Number (See AS2312:2002 Appendix D)
- DFT** Dry Film Thickness
- Sa, St** See AS1627.9



DuluxGroup Australia Pty Ltd
1956 Dandenong Road Clayton Vic 3168
ABN 67 000 049 427

DuluxGroup New Zealand Pty Ltd
150 Hutt Park Road, Gracefield Lower Hutt

© Dulux, Acrathane, Aquagalv, Durebild, Duremax, Durepon, Epigloss, Ferreko, Ferrodor, Luxachlor, Luxaprime, Luxathane, Luxepoxy, Metalshield, Steelshield, Weathermax, Weathershield and Zincanode are registered trademarks of DuluxGroupAustralia.

™ The Squares Device is a trademark.



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.



PROTECTIVE COATINGS

www.duluxprotectivecoatings.com.au