PAINT SYSTEMS FOR STEEL AS/NZS 2312.1:2014 TABLE 6.3

Coating system details													Durability - Years to first maintenance						
System designation	ISO 12944-5 designation (Note 1)	Surface preparation	1st Coat			2nd Coat			3rd Coat			Total nom DFT µm	Atmospheric corrosivity category						
			Type	PRN	Nom DFT µm	Type	PRN	Nom DFT µm	Type	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 - Two pack, solvent-borne																			
ACC1		St 3	Epoxy mastic	C32	125	Acrylic 2-pack	C33	50 (see Note 2)	-	-	-	175	25+	10-25	5-10	2-5	-	-	5-10
ACC2		Sa 2 1/2	Epoxy primer	C02 C06	75	Acrylic 2-pack	C33	50 (see Note 2)	-	-	-	125	25+	15-25	10-15	5-10	2-5	2-5	10-15
ACC4		Sa 2 1/2	Epoxy primer	C02 C06	75	High build epoxy	C13	125	Acrylic 2-pack	C33	50 (see Note 2)	250	*	25+	15-25	10-15	5-10	5-10	15-25
ACC5		Sa 2 1/2	Zinc rich primer	C01 C02	75	High build epoxy	C13	125	Acrylic 2-pack	C33	50 (see Note 2)	250	*	25+	15-25	10-15	5-10	5-10	15-25
ACC6		Sa 2 1/2	Zinc rich primer	C01 C02	75	High build epoxy	C13	200	Acrylic 2-pack	C33	50 (see Note 2)	325	*	25+	25+	25+	5-10	15-25	25+
ALKYD																			
ALK1		St 3/Sa 2	Alkyd primer	C05	40	-	-	-	-	-	-	40	5+	0-5	-	-	-	-	-
ALK2		Sa 2 1/2	High build Alkyd Primer	C04	75							75	15+	5-15	2-5	-	-	-	2-5
ALK3		St3/Sa 2	High build Alkyd Primer	C04	75	Alkyd Gloss	C20	40	-	-	-	115	15+	5-15	2-5	-	-	-	2-5
ALK4		Sa 2 1/2	High build Alkyd Primer	C04	75	Alkyd Gloss	C20	40	-	-	-	115	25+	5-25	2-5	-	-	-	2-5

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

LEGEND:

PRN = Paint reference number (see appendix D)

DFT = Dry film thickness

Sa, St - See ISO 8501-1

NOTES:

1 ISO 12944-5:2007 equivalent designation (to within +/- 25 µm total DFT). The durability given in ISO equivalent may be different

2 Some colour finishes may require multiple coats to achieve opacity

3 Accelerated testing of these systems suggests a much longer life expectancy than that nominated. However, because the organic polysiloxane systems are a recent development, no practical field experience greater than 20 years' service is available to confirm the accelerated testing results.

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EPOXY - Very High build (DFT: 250 TO 500 µm per coat)																			
EVH1		Sa 2 1/2	Very high build epoxy	C13a	250	-	-	-	-	-	-	250	25+	15-25	10-15	5-10	2-5	2-5	5-10
EVH2	A1.26	Sa 2 1/2	Very high build epoxy	C13a	400 or 2 x 200	-	-	-	-	-	-	400	*	25+	15-25	10-15	5-15	5-15	10-15
EVH3		Sa 2 1/2	Epoxy primer	C06	75	Very High Build Epoxy	C13a	400 or 2 x 200	-	-	-	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 2 1/2	Epoxy primer	C06	75	High build epoxy	C13	200	-	-	-	275	*	15-25	10-15	5-10	2-5	2-5	5-10
EHB4		Sa 2 1/2	Zinc rich primer	C01 C02	75	High build epoxy	C13	200	-	-	-	275	*	25+	15-25	10-15	5-10	5-10	10-15
EPOXY MASTIC - Surface tolerant																			
EPM2		St 3	Epoxy Mastic	C32	75	Epoxy Mastic	C32	75	-	-	-	150	25+	10-25	5-10	2-5	-	-	5-10
EPM3		St 3	Epoxy Mastic	C32	200	Epoxy Mastic	C32	200	-	-	-	400	*	15-25	10-15	5-10	2-5	2-5	10-15
POLYSILOXANE (see Note 3)																			
PSL1		Sa 2 1/2	Zinc Rich Primer	C01a C02	75	Organic polysiloxane	C37	125				200	*	15-25	15-25	10-15	-	-	15-25
PSL2		Sa 2 1/2	Zinc Rich Primer	C01a C02	75	HB epoxy	C13	175	Organic polysiloxane	C37	75	325	*	25+	25+	25+	15-25	15-25	25+
PSL3		Sa 2 1/2	Epoxy Primer	C06	75	HB epoxy	C13	175	Organic polysiloxane	C37	75	325	*	25+	25+	15-25+	15-25	10-15	25+

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LEGEND:

PRN = Paint reference number (see appendix D)

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Sa, St - See ISO 8501-1

NOTES:

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PUR1		St3	Epoxy Mastic	C32	125	Polyurethane Gloss	C26	50 (see Note 2)	-	-	-	175	*	10-15	5-10	2-5	-	-	5-15
PUR2	A1.15	Sa 2 1/2	Epoxy primer	C06	75	Polyurethane Gloss	C26	50 (see Note 2)	-	-	-	125	25+	10-25	5-10	2-5	-	-	5-15
PUR2a	A1.17	Sa 2 1/2	Zinc rich primer	C01a C02	75	High build epoxy	C15	75 (see Note 2)	-	-	-	150	25+	15-25	10-15	5-10	2-5	2-5	10-15
PUR3	A4.08	Sa 2 1/2	Epoxy primer	C06	75	High build epoxy	C13	125	Polyurethane gloss	C26	50 (see Note 2)	250	*	25+	15-25	10-15	5-10	5-10	15-25
PUR4	A1.20	Sa 2 1/2	Zinc rich primer	C01a C02	75	High build epoxy	C13	125	Polyurethane gloss	C26	50 (see Note 2)	250	*	25+	15-25	10-15	5-10	5-10	15-25
PUR5	A1.23	Sa 2 1/2	Zinc rich primer	C01a C02	75	High build epoxy	C13	200	Polyurethane gloss	C26	50 (see Note 2)	325	*	25+	25+	25+	15-25	15-25	25+
PUR6		St 3	Epoxy Mastic	C32	75	High build epoxy	C13	75	High Build Polyurethane	C15	75	225	*	15-25	10-15	5-10	2-5	2-5	5-15
PUR7	A1.19 A1.20	Sa 2 1/2	Epoxy Zinc primer	C02	75	High build epoxy	C13	75	High Build Polyurethane	C15	75	225	*	25+	15-25	10-15	5-10	5-10	10-15

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