

**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 $\mu\text{m}$	Atmospheric corrosivity category					
			Type	PRN	Nom DFT $\mu\text{m}$	Type	PRN	Nom DFT $\mu\text{m}$	Type	PRN	Nom DFT $\mu\text{m}$		C1 Very Low	C2 Low	C3 Med	C4 High	C5-I Very high industrial	C5-M Very high marine

**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+	10-25	5-10	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:**

- ISO 12944-5:2007 equivalent designation (to within +/- 25  $\mu\text{m}$  total DFT). The durability given in ISO equivalent may be different
- Some colour finishes may require multiple coats to achieve opacity
- 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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<b>EPOXY - Very High build (DFT: 250 TO 500 µm per coat)</b>																			
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
<b>EPOXY - High build (DFT: 125 TO 200 µm per coat)</b>																			
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
<b>EPOXY MASTIC - Surface tolerant</b>																			
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
<b>POLYSILOXANE (see Note 3)</b>																			
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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**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 Polyurethane	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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