



GUIDE TO AS/NZS 2312:2002 (amdt no.1 2004)

May 2008

Rev. 4

Paint Systems for Steel – Atmospheric Exposure

Section One

Paint Systems for Batch Galvanised Coatings

Section Two

Recommended Systems for Non-Atmospheric Environments

Section Three



GUIDE TO AS/NZS 2312: 2002 (amdt no.1 2004)

Section One: Paint Systems for Steel - Atmospheric Exposure

Coating Specification										Durability guide (as per AS/NZS 2312)						
AS/NZS 2312 System Designation	Superseded AS2312: 1994 System	Surface Preparation (AS/NZS 1627.4)	1 ST Coat		2 ND Coat		3 RD Coat		Total DFT (µm)	Exposure Environment (as per AS/NZS 2312)						
			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)		A Very Low	B Low	C Medium	D High	E-I Very High Industrial	E-M Very High Marine	F Tropical
ACRYLIC – Latex, single pack																
ACL1	-	St2	Duranamel PR10	75	Wattyl Sunfast	40	Wattyl Sunfast	40	155	15-25	5-15	2-5	2-5	-	-	2-5
ACL2	MP2-A MP2-C	Sa2½	Galvit EP100	75	Wattyl Sunfast	40	Wattyl Sunfast	40	155	25+	15-25	10-15	5-10	2-5	2-5	10-15
ACL3	LP4-A	Sa2½	Galvit EP100	75	Epiname EB600	125	Wattyl Sunfast	40	240	*	25+	15-25	10-15	5-10	5-10	15-25
ACRYLIC – Solvent borne catalyzed acrylic, two pack																
ACC1	-	St2	Epiname PR250	125	Paracryl IF540 [^]	50 [^]	-	-	175	25+	10-25	5-10	2-5	-	-	5-10
ACC2	-	Sa2½	Epiname PR250	75	Paracryl IF540 [^]	50 [^]	-	-	125	25+	15-25	10-15	5-10	2-5	2-5	10-15
ACC3	-	Sa2½	Galvit EP100	75	Paracryl IF540 [^]	50	-	-	125	25+	15-25	10-15	5-10	2-5	2-5	10-15
ACC4	MP5-J	Sa2½	Epiname PR250	75	Epiname EB600	125	Paracryl IF540 [^]	50	250	*	25+	10-15	5-10	2-5	2-5	10-15
ACC5	MP5-B MP5-F	Sa2½	Galvit EP100	75	Epiname EB600	125	Paracryl IF540 [^]	50	250	*	25+	10-15	5-10	2-5	2-5	10-15
ACC6	LP6-A	Sa2½	Galvit EP100	75	Epiname EB600	200	Paracryl IF540 [^]	50	325	*	25+	15-25	10-15	5-10	5-10	15-25

[^] Some colours may require multiple coats to achieve opacity, - Not applicable, * Suitable for this category but not economical.

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			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)		A Very Low	B Low	C Medium	D High	E-I Very High Industrial	E-M Very High Marine	F Tropical
ALKYD																
ALK1	SP1-A	St2	Duranamel PR5	40	-	-	-	-	40	10+	0-5	-	-	-	-	-
ALK2	-	Sa2½	Duranamel PR10	75	-	-	-	-	75	15+	5-15	2-5	-	-	-	2-5
ALK3	-	St2	Duranamel PR10	75	Duranamel BR22	40	-	-	115	15+	5-15	2-5	-	-	-	2-5
ALK4	-	Sa2½	Duranamel PR10	75	Duranamel BR22	40	-	-	115	25+	10-25	5-10	2-5	-	-	5-10
ALK5	SP5-A	St2	Duranamel PR5	40	Duranamel BR22	40	Duranamel BR22	40	120	15+	5-15	2-5	-	-	-	2-5
CHLORINATED RUBBER																
CLR1	-	Sa2½	PermaChlor PR30	75	Permachlor CR50	50	Permachlor CR50	50	175	25+	15-25	10-15	5-10	5-10	-	10-15
CLR2	MP6-B	Sa2½	Epinamel PR250	75	Permachlor CR50	50	Permachlor CR50	50	175	*	15-25	10-15	5-10	5-10	2-5	10-15
CLR3	-	Sa2½	Epinamel PR250	75	Permachlor CR60	100	Permachlor CR60	100	275	*	25+	15-25	10-15	10-15	5-10	15-25

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			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)		A Very Low	B Low	C Medium	D High	E-I Very High Industrial	E-M Very High Marine	F Tropical
EPOXY –High Build (DFT:125µm to 500µm per coat)																
EHB1	-	Sa2½	Epinamel DTM800	250	-	-	-	-	250	25+	15-25	10-15	5-10	2-5	2-5	10-15
EHB2	-	Sa2½	Epinamel DTM800	400	-	-	-	-	400	*	25+	15-25	10-15	5-15	5-15	10-15
EHB3	MP9-C	Sa2½	Epinamel PR250	75	Epinamel DTM800	200	-	-	275	*	25+	15-25	10-15	5-15	5-15	10-15
EHB4	MP9-A MP9-B	Sa2½	Galvit EP100	75	Epinamel DTM800	200	-	-	275	*	25+	15-25	10-15	5-10	10-15	10-15
EHB5	LP1-I	Sa2½	Epinamel PR250	75	Epinamel EB600MIO	125	Epinamel EB600MIO	125	325	*	25+	15-25	10-15	10-15	10-15	15-25
EHB6	-	Sa2½	Galvit EP100	75	Epinamel EB600MIO	125	Epinamel EB600MIO	125	325	*	25+	25+	10-25	10-15	10-15	10-25

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			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)		A Very Low	B Low	C Medium	D High	E-I Very High Industrial	E-M Very High Marine	F Tropical
EPOXY – Primer / finish gloss																
EPF1	MP5-I	Sa2½	Epinamel PR250	75	Epinamel EB600	125	Epinamel CF602	50	250	*	25+	15-25	10-15	5-15	5-15	10-15
EPOXY MASTIC – Surface tolerant																
EPM1	MP8-A	St2	Epinamel DTM900	200	-	-	-	-	200	25+	10-25	5-10	2-5	-	-	5-10
EPM1	MP8-A	St2	Epinamel DTM800	200	-	-	-	-	200	25+	10-25	5-10	2-5	-	-	5-10
EPM2	-	St2	Epinamel PR250	75	Epinamel PR250	75	-	-	150	25+	10-25	5-10	2-5	-	-	5-10
EPM3	-	Sa2	Epinamel DTM900	200	Epinamel DTM900	200	-	-	400	*	15-25	10-15	5-10	2-5	2-5	10-15
EPM3	-	Sa2	Epinamel DTM800	200	Epinamel DTM800	200	-	-	400	*	15-25	10-15	5-10	2-5	2-5	10-15

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			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)		A Very Low	B Low	C Medium	D High	E-I Very High Industrial	E-M Very High Marine	F Tropical
INORGANIC ZINC SILICATE																
IZS1	MP1-A	Sa2½	Galvit ES600	75	-	-	-	-	75	25+	15-25	10-15	5-10	2-5	2-10	10-15
POLYURETHANE – Solvent borne, two pack																
PUR1	-	St2	Epinamel DTM800	150	Poly U400*	50	-	-	200	*	10-15	5-10	2-5	-	-	5-15
PUR2	-	Sa2½	Epinamel PR250	75	Poly U400*	50	-	-	125	*	15-25	10-15	5-10	2-5	2-5	10-15
PUR3	MP5-K	Sa2½	Epinamel PR250	75	Epinamel EB600	125	Poly U400*	50	250	*	25+	15-25	10-15	5-10	5-10	15-25
PUR4	MP5-D	Sa2½	Galvit EP100	75	Epinamel EB600	125	Poly U400*	50	250	*	25+	15-25	10-15	5-10	5-10	15-25
PUR5	LP6-B	Sa2½	Galvit EP100	75	Epinamel EB600	200	Poly U400*	50	325	*	25+	25+	15-25	10-15	10-15	25+
PUR6	-	St2	Epinamel PR250	75	Epinamel PR250	75	Poly U750	75	225	*	10-15	5-10	2-5	-	-	5-15
PUR7	-	Sa2½	Galvit EP100	75	Epinamel EB600	75	Poly U750	75	225	*	15-25	10-15	5-10	2-5	2-5	10-15

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Section Two: Paint Systems for Batch Galvanised Coatings - Atmospheric Exposure

Coating Specification							
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			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	
HDG600P1	GZLP-A	Degrease, wash and dry	Wattyl Sunfast	40	Wattyl Sunfast	40	80
HDG600P2	GZLP-B	Degrease, wash and dry	PC Galvanised Iron Primer	40	Wattyl Sunfast	40	80
HDG600P3	GZLP-C	Sweep abrasive blast	EpinameI EB600 MIO	150	-	-	150
HDG600P4	GZLP-D	Sweep abrasive blast	DuranameI PR7 Etch	20	Permachlor CR60	150	170
HDG600P5	GZLP-F	Sweep abrasive blast	EpinameI PR250	75	EpinameI EB600	125	200
HDG600P6	-	Sweep abrasive blast	EpinameI PR250	75	Paracryl IF540	75	150
HDG600P7	-	Sweep abrasive blast	EpinameI PR250	75	Poly U750	75	150

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Section Three: Recommended Systems for Non-Atmospheric Environments

Coating Specification									
AS/NZS 2312 System Designation	Surface Preparation (AS/NZS 1627.4)	Surface Profile (µm)	1 ST Coat		2 ND Coat		3 RD Coat		Total DFT (µm)
			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	
SEAWATER IMMERSION (refer to notes 1,2)									
EHB-7	Sa2½	50 - 75	EpinameI DTM900	250	EpinameI DTM900	250	-	-	500
EHB-7	Sa2½	50 - 75	EpinameI MF920	250	EpinameI MF920	250	-	-	500
SEAWATER SPLASH (refer to notes 1,2)									
EHB-7a	Sa2½	50 - 75	EpinameI DTM900	250	EpinameI DTM900	250	-	-	500
EHB-7a	Sa2½	50 - 75	EpinameI MF920	250	EpinameI MF920	250	-	-	500
EHB-9	Sa2½	30 - 50	EpinameI PR250	100	EpinameI DTM900	250	EpinameI DTM900	250	600
BURIED IN SOIL (refer to notes 1,2)									
-	Sa2½	50 - 75	EpinameI DTM900	150	EpinameI DTM900	150	-	-	300
-	Sa2½	50 - 75	EpinameI MF920	250	EpinameI MF920	250	-	-	500

Notes: 1. All sharp edges, welds, corners, bolts, nuts holes etc shall be stripe coated by brush with each coat prior to full coat application. 2. Where coating in under immersion and/or buried, testing for holidays/pinholes in accordance with AS3894.1 is required. 3. Allowable pH range 4-9 only.

^A Some colours may require multiple coats to achieve desired film build and opacity, - Not applicable, * Suitable for this category but not economical

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Section Three: Recommended Systems for Non-Atmospheric Environments

Coating Specification									
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			Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	
SEWERAGE IMMERSION (refer to notes 1,2,3)									
EHB-7	Sa2½	50 - 75	Epinamel DTM900	250	Epinamel DTM900	250	-	-	500
EHB-7	Sa2½	50 - 75	Epinamel MF920	250	Epinamel MF920	250	-	-	500
SEVERE INDUSTRIAL – Acid Splash (refer to note 1)									
CLR3	Sa2½	30 – 50	Epinamel PR250	75	PermaChlor CR60^A	125	PermaChlor CR50^A	50	250
SEVERE INDUSTRIAL – Alkaline Splash (refer to note 1)									
-	Sa2½	30 – 50	Epinamel PR300ZP	100	Epinamel DTM800	400	Epinamel CF602	50	550
SEVERE INDUSTRIAL – Solvent (refer to notes 1,2 (excludes IZS1))									
IZS1	Sa2½	30 – 50	Galvit ES600	75	-	-	-	-	75

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1. This information is provided with respect to the listed Wattyl products. Wattyl recommends that: (a) you review the Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS) before you use or handle the product; (b) the product be used only in accordance with the information provided by Wattyl; (c) the product be transported, stored and handled in accordance with the information on the MSDS and relevant TDS; and (d) you thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product. 2. The information in this TDS was prepared using information gathered during product development. While Wattyl endeavours to update this information and maintain the accuracy and currency of its contents, Wattyl cannot guarantee that the information provided is wholly comprehensive. 3. For all product and non-product related information, Wattyl recommends that you conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely in using and handling the product. If you require further information please contact your nearest Wattyl Office. 4. To the full extent permitted by law, Wattyl's liability for breach of a condition or warranty implied into the contract for sale between Wattyl and you by law is limited at Wattyl's election to: (a) the replacement of the product; or (b) payment of the cost of replacing the product. WATTYL AUSTRALIA PTY LTD (ABN 40 000 035 914)



GUIDE TO AS/NZS 2312: 2002 (amdt no.1 2004)

Section Three: Recommended Systems for Non-Atmospheric Environments

Coating Specification									
AS/NZS 2312 System Designation	Surface Preparation (AS/NZS 1627.4)	1 ST Coat		2 ND Coat		3 RD Coat		Total DFT (µm)	Maximum heat resistance °C
		Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)	Wattyl Product	Nom DFT (µm)		
HIGH TEMPERATURE									
-	Sa2½	Galvit ES510	75	Heatkote Aluminium	25	Heatkote Aluminium	25	125	200
HR2	Sa2½	Epinamel ES600	75	-	-	-	-	75	400

Notes: 1. All sharp edges, welds, corners, bolts, nuts holes etc shall be stripe coated by brush with each coat prior to full coat application. 2. Where coating in under immersion and/or buried, testing for holidays/pinholes in accordance with AS3894.1 is required. 3. Allowable pH range 4-9 only.
 ^ Some colours may require multiple coats to achieve desired film build and opacity, - Not applicable, * Suitable for this category but not economical
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