



INTRODUCTION

Protection of steel substrates is a major part of the Australian construction scene. Avoidance of the many pit falls that exist in achieving this goal is of considerable concern to designers, construction engineers and applicators alike. *AS/NZS 2312:2002 Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings* offers detailed assistance for all of the important aspects of this difficult problem. Watty's guide to AS/NZS 2312 provides a summary of Watty's applicable coating systems with a guide to durability in the particular exposure environments nominated. It is assumed that readers of this guide have a working knowledge of AS/NZS 2312 and associated standards. For further assistance with system selection for a specific project please contact your local Protective and Marine Coatings Sales Representative or contact Watty on 132 101.

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

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AS/NZS 2312 System Designation	Superseded AS2312: 1994 System	Surface Preparation†	1 ST Coat		2 ND Coat		3 RD Coat		Total DFT (µm)	Exposure Environment (as per AS/NZS 2312)						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	-	Si2	Duramel 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	Epinamel 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	-	Si2	Epinamel PR250	125	Paracryl IF540 [^]	50 [^]	-	-	175	25+	10-25	5-10	2-5	-	-	5-10
ACC2	-	Sa2½	Epinamel 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	Epinamel PR250	75	Epinamel 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	Epinamel EB600	125	Paracryl IF540 [^]	50	250	*	25+	10-15	5-10	2-5	2-5	10-15
ACC6	LP6-A	Sa2½	Galvit EP100	75	Epinamel 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. † Refer to AS 1627.1, AS1627.2, AS1627.4 and AS1627.9
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 Version 8, May 2010



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Paint Systems for Steel - Atmospheric Exposure (continued)

Coating Specification										Durability guide (as per AS/NZS 2312)						
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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	Si2	All Purpose Primer	40	-	-	-	-	40	10+	0-5	-	-	-	-	-
ALK2	-	Sa2½	Duranamel PR10	75	-	-	-	-	75	15+	5-15	2-5	-	-	-	2-5
ALK3	-	Si2	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	Si2	All Purpose Primer	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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Paint Systems for Steel - Atmospheric Exposure (continued)

Coating Specification										Durability guide (as per AS/NZS 2312)						
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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 DTM985	250	-	-	-	-	250	25+	15-25	10-15	5-10	2-5	2-5	10-15
EHB2	-	Sa2½	Epinamel DTM985	400	-	-	-	-	400	*	25+	15-25	10-15	5-15	5-15	10-15
EHB3	MP9-C	Sa2½	Epinamel PR250	75	Epinamel DTM985	200	-	-	275	*	25+	15-25	10-15	5-15	5-15	10-15
EHB4	MP9-A MP9-B	Sa2½	Galvit EP100	75	Epinamel DTM985	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
EPOXY –Ultra High Build																
EUH1	LP5-A	Sa2½	Epinamel UHB1000	1000	-	-	-	-	1000	*	*	*	25+	15-25	15-25	*

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Paint Systems for Steel - Atmospheric Exposure (continued)

Coating Specification										Durability guide (as per AS/NZS 2312)						
AS/NZS 2312 System Designation	Superseded AS2312: 1994 System	Surface Preparation†	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
EPOXY – Primer / finish gloss																
EPF1	MP5-I	Sa2½	Epiname PR250	75	Epiname EB600	125	Epiname CF602	50	250	*	25+	15-25	10-15	5-15	5-15	10-15
EPOXY MASTIC – Surface tolerant																
EPM1	MP8-A	Si2	Epiname DTM985	200	-	-	-	-	200	25+	10-25	5-10	2-5	-	-	5-10
EPM2	-	Si2	Epiname PR250	75	Epiname PR250	75	-	-	150	25+	10-25	5-10	2-5	-	-	5-10
EPM3	-	Sa2	Epiname DTM985	200	Epiname DTM985	200	-	-	400	*	15-25	10-15	5-10	2-5	2-5	10-15

^ Some colours may require multiple coats to achieve opacity, - Not applicable, * Suitable for this category but not economical. † Refer to AS 1627.1, AS1627.2, AS1627.4 and AS1627.9
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Paint Systems for Steel - Atmospheric Exposure (continued)

Coating Specification										Durability guide (as per AS/NZS 2312)						
AS/NZS 2312 System Designation	Superseded AS2312: 1994 System	Surface Preparation†	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
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	-	Si2	Epinamel DTM985	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	-	Si2	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

^ Some colours may require multiple coats to achieve opacity, - Not applicable, * Suitable for this category but not economical. † Refer to AS 1627.1, AS1627.2, AS1627.4 and AS1627.9
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Paint Systems for Batch Galvanised Coatings - Atmospheric Exposure

Coating Specification							
AS/NZS 2312 System Designation	Superseded AS2312: 1994 System	Surface Preparation†	1 ST Coat		2 ND Coat		Total DFT (µm)
			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	AquaPrep Galvanised Iron Primer	40	Wattyl Sunfast	40	80
HDG600P3	GZLP-C	Sweep abrasive blast	Epiname! EB600 MIO	150	-	-	150
HDG600P4	GZLP-D	Sweep abrasive blast	Duranamel PR7 Etch	20	Permachlor CR60	150	170
HDG600P5	GZLP-F	Sweep abrasive blast	Epiname! PR250	75	Epiname! EB600	125	200
HDG600P6	-	Sweep abrasive blast	Epiname! PR250	75	Paracryl IF540	75	150
HDG600P7	-	Sweep abrasive blast	Epiname! PR250	75	Poly U750	75	150

^ Some colours may require multiple coats to achieve opacity, - Not applicable, * Suitable for this category but not economical. † Refer to AS 1627.1, AS1627.2, AS1627.4 and AS1627.9
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 Durability years nominated are a guide defined by AS2312 and do not constitute a Wattyl warranty.
 Version 8, May 2010



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Recommended Systems for Non-Atmospheric Environments

Coating Specification									
AS/NZS 2312 System Designation	Surface Preparation†	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)	
POTABLE WATER IMMERSION (refer to notes 1,2)									
EUH1	Sa3	75-100	Epinamel TL770SF	500	Epinamel TL770SF	500			1000
EHB7	Sa2½	50 - 75	Epinamel TL710	150	Epinamel TL710	150	-	-	300
EHB8	Sa3	50 - 75	Epinamel TL710	250	Epinamel TL710	250	-	-	500
SEAWATER IMMERSION (refer to notes 1,2)									
EUH2	Sa2½	75-100	Epinamel UHB1000	1000	Epinamel UHB1000	1000	-	-	2000
EHB7	Sa2½	50 - 75	Epinamel TL710	150	Epinamel TL710	150	-	-	300
-	Sa2½	50 - 75	Epinamel DTM985	250	Epinamel DTM985	250	-	-	500
-	Sa2½	50 - 75	Epinamel MF920	250	Epinamel MF920	250	-	-	500
SEAWATER SPLASH (refer to notes 1,2)									
EUH3	Sa2½	75-100	Epinamel UHB1000	1000			-	-	1000
EHB7a	Sa2½	50 - 75	Epinamel DTM985	250	Epinamel DTM985	250	-	-	500
EHB7a	Sa2½	50 - 75	Epinamel MF920	250	Epinamel MF920	250	-	-	500
EHB7a	Sa2½	50 - 75	Epinamel TL710	250	Epinamel TL710	250	-	-	500
EHB9	Sa2½	30 - 50	Epinamel PR250	100	Epinamel DTM985	250	Epinamel DTM985	250	600
EHB9	Sa2½	30 - 50	Epinamel PR250	100	Epinamel TL710	250	Epinamel TL710	250	600

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.

4. To prevent coating damage, clean up all spills immediately. 5. Refer to Wattyl document *I-19 Tank Lining Resistance Guide* for suitable cargoes.

^ Some colours may require multiple coats to achieve desired film build and opacity, - Not applicable, * Suitable for this category but not economical † Refer to AS 1627.1, AS1627.2, AS1627.4 and AS1627.9

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Recommended Systems for Non-Atmospheric Environments (continued)

Coating Specification									
AS/NZS 2312 System Designation	Surface Preparation†	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)	
BURIED IN SOIL (refer to notes 1,2)									
EUH4	Sa2½	75-100	EpinameI UHB1000	1200	EpinameI UHB1000	1200			2400
-	Sa2½	50 - 75	EpinameI DTM985	150	EpinameI DTM985	150	-	-	300
-	Sa2½	50 - 75	EpinameI MF920	250	EpinameI MF920	250	-	-	500
-	Sa2½	50 - 75	DuranameI BF30	250	DuranameI BF30	250	-	-	500
SEVERE INDUSTRIAL – Acid Splash (refer to note 1,4)									
CLR3	Sa2½	30 – 50	EpinameI PR250 (Off White)	75	PermaChlor CR60 [^]	150	PermaChlor CR50 [^]	50	275
SEVERE INDUSTRIAL – Alkaline Splash (refer to note 1,4)									
EHB9	Sa2½	30 – 50	EpinameI PR250 (Off White)	75	EpinameI TL710	250	EpinameI TL710	250	575
EUH5	Sa2½	75-100	EpinameI UHB1000	2000					2000
SEVERE INDUSTRIAL – Solvent Immersion (refer to notes 1,2,5 (IZS1 exempt from notes 1,2))									
IZS1	Sa2½	30 – 50	Galvit ES600	75	-	-	-	-	75
ELT1	Sa2½	30 – 50	EpinameI TL710	200	EpinameI TL710	200	-	-	400

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Recommended Systems for Non-Atmospheric Environments (continued)

Coating Specification									
AS/NZS 2312 System Designation	Surface Preparation†	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									
HR1	Sa2½	Galvit ES600	75	Heatkote Aluminium	25			100	250
HR3	Sa2½	Galvit ES600	75	-	-	-	-	75	400

For the most up to date information contact Wattyl Customer Service Hotline or visit the Wattyl Website.

	Australia	New Zealand
CUSTOMER SERVICE HOTLINE	132 101	0800 735 551
WEBSITE	http://www.wattyl.com.au	http://www.wattyl.co.nz

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1. This information is important to ensure that the listed Wattyl product(s) perform according to the stated application and uses and must be followed to meet Wattyl's warranties express and implied. Wattyl advises that you (a) review the Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS) before you use or handle the product; (b) ensure that the product be used only in accordance with the information provided by Wattyl and the product(s) be transported, stored and handled in accordance with the information on the MSDS and relevant TDS; and (c) thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product. 2. While Wattyl endeavours to update this information and maintain the accuracy and currency of its contents, Wattyl does not warrant that the information provided is current when the product is used or 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 before using the product(s). 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. If coating rectification is required Wattyl Technical Services shall be contacted prior to commencement.
WATTYL AUSTRALIA PTY LTD (ABN 40 000 035 914)

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