



DURAKOTE®
April 1st, 2009

DURAKOTE® STEEL

DESIGNED FOR RAINWATER PRODUCTS (GUTTERS, FASCIA, DOWNPIPES)

DESCRIPTION

DURAKOTE® prepainted steel is specifically designed for the Australian rainwater products environment. An extremely durable, high quality product with superior corrosion and heat resistance for general use on gutters, fascia and downpipes.

STANDARDS

Substrate ASTM A792M

Paint Coating – AS/NZS 2728:1997 Type 3-4.

SPECIFICATION

Substrate: AluZinc steel coil **AZ165**. Manufactured to ASTM A792M

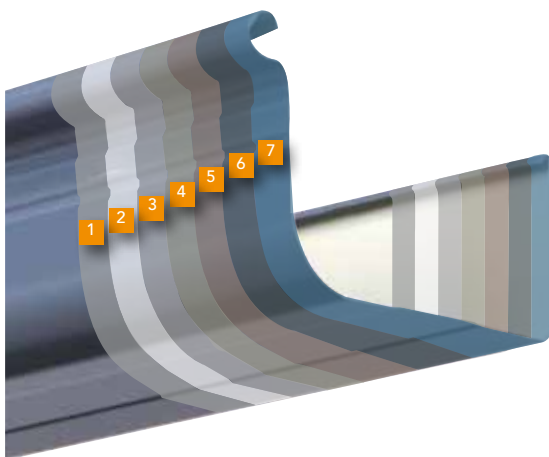
Pre-treatment: Corrosion resistant conversion coating

Primer: Corrosion Resistant Primer

Finishing Coat: Durable exterior polyester grade paint coat (Nominal 20µm) AS/NZS 2728:1997 Type 3-4

Backing Coat: Shadow Grey wash coat. (Nominal 6µm)

Protective film: Should be removed from the product prior to installation. If product is exposed to sunlight/ or left uncovered outside it can increase adhesion of the protective film to the paint surface



- Backing Coat (Nominal 6µm)** **1**
- Corrosion Resistant Primer **2**
- Corrosion resistant Coating **3**
- AluZinc (Aluminium Zinc Alloy Coated Steel)** **4**
- Corrosion resistant Coating **5**
- Corrosion Resistant Primer (Nominal 5µm both sides) **6**
- Finish Coat (Nominal 20µm) **7**

LINE TESTED PROPERTIES

PROPERTY	TEST METHOD	MEASURED BY	RESULTS
Hardness	AS/NZS 1580 405.1 NCCA Tech.Bull. 4.2.5	Pencil	HB or harder
Adhesion	AS/NZS 2728 (App.E) NCCA Tech. Bull. 4.2.6	Reverse Impact	≥10 joules
	AS/NZS 2728 (App. F) NCCA Tech. Bull. 4.2.8	T-Bend	Maximum 5T
Specular Gloss	AS/NZS 1580 602.2 ASTM D523	60° meter	15-35%

EXPECTED PRODUCT PERFORMANCE

Ace Gutters Pty Ltd, warrants that Ace gutter, downpipe and fascia manufactured from genuine DURAKOTE® pre-painted steel will have a life prior to perforation by natural weathering of 20 years from the date of installation.

ACE also warrants that the DURAKOTE® exterior paint system will not flake or peel for a period of 20 years from the date of installation.

PROPERTY	TEST METHOD	MEASURED BY	RESULTS
Resistance to colour change	ASTM G53	QUV (2000 hours)	Δ E Hunterlab: Intermediate Colour: <5 unit
	ASTM D2244	Natural well washed Exposure	Δ E Hunterlab: Light colour: <6 units Int. colour: <8 units Dark colour: <13 units
Resistance to chalking	ASTM G53 AS/NZS 1580 481.1.11 (Method B)	QUV (2000 hours)	Rating: <4
	AS/NZS 1580 481.1.11	Natural well washed	Chalk rating: <4
Resistance to corrosion	ASTM B117 AS 2331.3.1 NCCA Tech. Bull. 5.4.6	Salt Spray (1000 hours)	Blister density: <2 Blister size: <S2 Undercut from a score:<2mm No loss of adhesion
	DIN 50018		Edge creep: <4mm
Resistance to humidity	NCCA Tech. Bull. 5.4.5	Cleveland (1000 hours)	Blister density: <2 Blister size: <S2 No loss of adhesion
Resistance to acids	ASTM D1 308 (3.1.1)	Exposure	No discolouration No blistering
Resistance to alkalis	ASTM D1308	Exposure	No discolouration No blistering
Resistance to solvents	ASTM D1308	Exposure	No discolouration No blistering
Adhesion	-	Natural well washed	No flaking or peeling
Resistance to fire	AS/NZS 1530.3	Exposure	Ignitability index: 0 rating in scale of 0-20 Smoke evolved index: 0-1 rating in scale of 0-10
Flexibility	AS 2935 (App. E)	T-bend	Maximum 7T (no cracking)
Resistance to abrasion	AS/NZS 1580 403.2	Taber Abraser-100g	Typically 50mg
	AS/NZS 1580 403.1	Scratch	Typically 2000g