

DURAKOTE® STEEL

DESIGNED FOR ROOFING, WALLING, CLADDING & RAINWATER PRODUCTS

DESCRIPTION

DURAKOTE® pre-painted steel is designed specifically for the Australian Roofing and Rainwater products environment. An extremely durable, high quality product with superior corrosion and heat resistance for general use on roofing, walling, cladding, gutters, fascia and downpipes.

STANDARDS

Substrate AS 1397:2011

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

SPECIFICATION

Substrate: AluZinc steel coil AZ150. Manufactured to AS 1397:2011

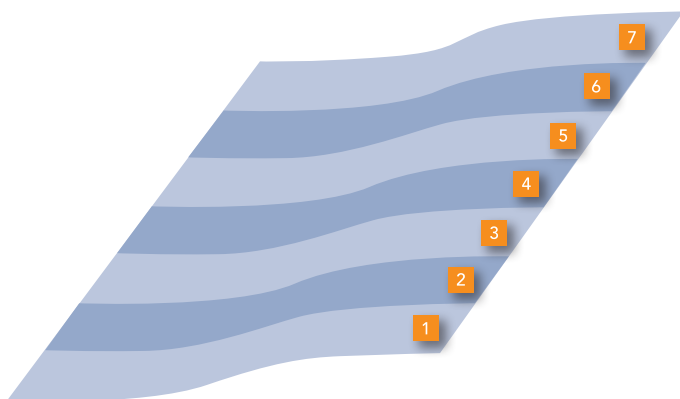
Pre-treatment: Corrosion resistant conversion coating

Primer: Corrosion Resistant Primer

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

Backing Coat: Ace Light Grey Backer (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 AS/NZS 2728 (App. F) NCCA Tech. Bull. 4.2.8	Reverse Impact	>10 joules
		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 Roofing manufactured from genuine DURAKOTE® pre-painted steel will have a life prior to perforation by natural weathering of up to 30 years from the date of installation.

Ace Gutters Pty Ltd 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: <9 units Dark colour: <15 units
Resistance to chalking	ASTM G53	QUV (2000 hours)	Rating: <4
	AS/NZS 1580 481.1.11 (Method B) AS/NZS 1580 481.1.11	Natural well washed	Chalk rating: <4
Resistance to corrosion	ASTM B117	Salt Spray (1000 hours)	Blister density: <2
	AS 2331.3.1 NCCA Tech. Bull. 5.4.6 DIN 50018		Blister size: <S2 Undercut from a score: <2mm No loss of adhesion 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 D1308 (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