COLORBOND® Ultra steel

Designed for: Exterior Roofing and Walling

Revision 5, Mar 2009. This literature supersedes all previous issues

GENERAL DESCRIPTION

COLORBOND® Ultra prepainted steel, specifically designed by BlueScope Steel Limited, combines long term durability and exceptional corrosion resistance. To determine if warranties apply, please visit the BlueScope Steel website or contact your nearest BlueScope Steel sales office for advice

TYPICAL USES

Exterior building profiles in applications requiring excellent corrosion resistance and long term durability. Suited to moderate to severe marine, and industrial, environments. For material selection advice, please contact your nearest BlueScope Steel Sales office.

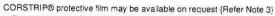
AUSTRALIAN STANDARDS

Substrate - AS 1397 Paint Coating - AS/NZS 2728 Type 4

PREFERRED SUBSTRATES

ZINCALUME® G550S AZ200 steel ZINCALUME® G300S AZ200 steel {Refer Note 8}

Please refer to current price list or BlueScope Steel Limited State Sales Office for availability of colours and dimensions.



- ←Finish Coat (Nominal 20µm) (Refer Notes 4 & 5)
- ←Corrosion Inhibitive Primer (Nominal 5µm)
- ←Conversion Coating



- Conversion coating
- ←Corrosion Inhibitive Primer (Nominal 5µm)
- -Backing Coat (Bass Grey, Nominal 10μm) {Refer Note 6}



Property	Test & Evaluation Method(s)	Results
Flexibility	VI access or any access of the contract of the	South St. Committee of the Committee of
T-bend Resistance to abrasion	ASTM D4145-83	Maximum 7T (no cracking). Refer Note 7
Taber Abraser - 1000g CS-10 wheels	ACAI70 1500 100 0 NOOL T	
raber Abraser - 1000g CS-10 wheels	AS/NZS 1580.403.2; NCCA Tech. Bull. 4.3.2 (test & eval)	≤20mg per 100 cycles
Scratch	AS 2331.4.7 (test & eval)	Typically 2000g
Adhesion	AND AND A STATE OF THE STATE OF	
Natural well washed exposure (10 yrs)	AS/NZS 1580.457.1	No flaking or peeling. Refer Notes 9 & 10.
Resistance to humidity		
Cleveland (500 hours)	ASTM D4585: NCCA Tech. Bull 5.4.5 & AS/NZS 1580.481.1.9 (Blisters); AS 1580.408.4 (Adhesion)	Blister density: ≤3 Blister size:≤S2 No loss of adhesion or corrosion
Resistance to corrosion		
Salt spray (1000 hours)	AS/NZS 2728 (App. I), ASTM B117; AS 2331.3.1; NCCA Tech. Bull. 5.4.6 & AS/NZS 1580.481.1.9 (Blisters); AS 1580.408.4 (Adhesion)	Blister density: ≤2 Blister size: ≤S3 Undercut from a score: ≤2mm No loss of adhesion or corrosion. Refer Note 2.
Kesternich (SO2) (50 cycles)	DIN 50018	Edge creep: <4mm. Refer Note 2.
Resistance to colour change		Edge creep. Cammit Meler (40te 2.
QUV (2000 hours)	ASTM G154 & ASTM D2244 (Colour)	Δ E cielab 2000: Intermediate colour: ≤5 unit
Natural well washed exposure (10 yrs) (Refer Notes 9 & 10)	AS/NZS 1580.457.1 & ASTM D2244 (Colour)	Δ E cielab 2000: light colour ≤4 units Int. colour: ≤6 units Dark colour; ≤10 units
Resistance to chalking		STORE DE LINE DE LA CORDET, E TO EL MIS
QUV (2000 hours)	ASTM G154 & AS/NZS 1580.481.1.11 (Chalk Method B)	Chalk rating: ≤4
Natural well washed exposure (10 yrs)	AS/NZS 1580.457.1 & AS/NZS 1580.481.1.11 (Chalk Method B)	Chalk rating: ≤4. Refer Notes 9 & 10
Resistance to solvents		
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); AS/NZS 1580.481.1.9 (Blisters)	No discolouration or bilstering. Refer Notes 9 & 11.
Resistance to acids	(0.00)	G-11.
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); AS/NZS 1580.481.1.9 (Blisters)	No discolouration or bilstering. Refer Notes 2 & 11.
Resistance to alkalis	(Bibliota)	3. 11.
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); AS/NZS 1580.481.1.9 (Blisters)	No discolouration or blistering. Refer Notes 2 & 11.
Resistance to fire	(Paratara)	B. 117.
Exposure	AS/NZS 1530.3 (test & eval)	Ignitability index: 0 rating in scale of 0-20 Spread of flame index: 0 rating in scale of 0- 10 Heat evolved index: 0 rating in scale of 0- 10 Smoke evolved index: 0 - 1 rating in scale of 0 - 10
Resistance to heat Exposure 100 ℃ continuous	ASTM D2244 (Colour)	Colour change ∆ E cielab 2000; ≤3 units





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LINE TESTED PROPERTIES

Property	Test & Evaluation Method(s)	Results
Adhesion	The state of the s	Misselles .
Reverse Impact	AS/NZS 2728 (App. E); NCCA Tech. Bull. 4.2.6 (test & eval)	≥10 joules
T-bend	AS/NZS 2728 (App. F); NCCA Tech Bull. 4.2.8 (fest & eval)	Maximum 6T. Refer Note 7
Hardness	A CALLED TO THE CONTROL OF THE CONTR	
Pencil	AS/NZS 1589.405.1; NCCA Tech. Bull. 4.2.5 (test & eval)	H8 or harder
Specular gloss		
60º meter	AS/NZS 1580 602.2; ASTM D523 (test & eval)	Nominal ± 10 units

IMPORTANT NOTES

- 1 All warranties for a product, if any, are subject to eligibility. Terms and Conditions apply. Nothing in this document is intended by BlueScope Steel to extend, modify or otherwise affect any stated product warranty. To find out more, please visit the BlueScope Steel website or contact your nearest BlueScope Steel sales office for advice.
- 2 Product may not be suitable if it it intended to use COLORBOND® Ultra steel in an exterior application within 200m of sait marine locations, severe industrial or abnormally corrosive environments; in areas not washed by rain, or in applications where it will be wholly or partly buried in the ground. For selection of the most appropriate COLORBOND® steel product, please refer to technical bulletins TB1a, TB1b, CTB16, CTB21 and CTB22. Before purchase, you should check on suitability by visiting the BlueScope Steel website, or by contacting your nearest BlueScope Steel Limited Sales office for advice.
- 3 The CORSTRIP® protective film should be removed from the painted steel strip immediately on installation. Sunlight can increase adhesion of the protective film to the painted surface if left uncovered outside.
- 4 Finish Coat the coating applied to the exposed surface of the prepainted coil which is expected to meet the Performance Requirements.
- 5 The product is supplied with a nominal 25 unit (60°) gloss Finish Coat
- 6 Backing coat a thin coating applied to the reverse surface of the prepainted coil. It also gives additional durability to the reverse surface during the service life of the product, but for aesthetic reasons is not recommended for exposure to sunlight. Performance Requirements are not generally applicable to Backing coats. Where specific Performance Requirements are deemed necessary for the reverse surface coating, "double sided" product should be specified, in which case a topcoat of full nominal thickness will be applied.
- 7 The minimum recommended bend radii for forming processes are specified by the maximum T-bend adhesion and T-bend flexibility values, to avoid paint adhesion and cracking issues, respectively.
- 8 For most products, the metallurgical ageing process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.
- 9 Improper storage or use of non-approved roll-forming lubricants may cause brand transfer and paint blushing, and may adversely affect colour and long term durability. Product in coll or sheet pack form must be kept dry. If the coll or sheet pack becomes wet, it must be separated and dried (refer AS/NZS 2728 Appendix L, and also technical bulletin TB7). Contact your nearest BlueScope Steel Sales office to obtain advice on appropriate rollforming lubricants.
- 10 Values quoted are for standard colours of COLORBOND® Ultra steel under normal well washed conditions of exposure.
- 11 COLORBOND® Ultra steel has good resistance to accidental spillage of substances such as paint thinners, cleaning products, mineral acids and alkalis. All spillages however, should be removed as soon as possible in accordance with the advice given in the appropriate safety data sheet

COLORBOND®, ZINCALUME® and CORSTRIP® are registered trade marks of BlueScope Steel Limited. BlueScope is a trade mark of BlueScope Steel Limited.

Please ensure you have the current datasheet for this product as displayed at www.bluescopesteel.com

BlueScope Steel Limited

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