



Global-Mark Pty Ltd,
Suite 4.07, 32 Delhi
Road, North Ryde NSW
2113, Australia

Tel: +61 (0)2 9886 0222 -
www.Global-Mark.com.au

Certificate Holder:
ASTEC Paints
International Pty Ltd
and ASTEC Paints
Australasia Pty Ltd
22-24 Pinn Street
St Marys, SA, 5042
Australia
Tel: (08) 8297 2000
Website:
www.astecpaints.com.au

Certificate of Conformity

Certificate number: CM30010 Rev 2

THIS TO CERTIFY THAT

Energy Star Coatings

Type and/or use of product:

Energy Star Coatings have been specifically formulated and tested to achieve enhanced radiation reflectance (including infrared, visible and ultraviolet radiation).

Description of product:

Energy Star Coatings consist of paints and coatings applied to external surfaces of buildings.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)


BCA 2019 +A1

	Volume One – incorporating Amendment No.1		Volume Two – incorporating Amendment No.1	
Performance Requirement(s)	JP1 (c)(ii)	Energy use – Solar radiation	P2.6.1 (e)(ii)	Energy efficiency – Building
Deemed-to-Satisfy Provision(s):	J1.3 (b)	Roof and ceiling construction	3.12.1.2 (a)(i)	Building fabric – Roofs
State or territory variation(s):	NSW J(A)P1 (a)		NSW Part 2.6	
	NSW Section J		NSW 3.12	
	NT Section J		NT 2.6	
	Qld Section J		NT 3.12	
	SA J1.3 (c)		Qld 3.12	
			Vic P2.6.1	

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate. The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In placing the **CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).


Herve Michoux
Global-Mark Managing Director


Peter Gardner
Unrestricted Building Certifier

Date of issue: 23/03/2022

Date of expiry: 09/03/2025



Certificate of Conformity

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

- 1) Volume One J1.3 (b) and Volume Two 3.12.1.2 (a)(i) compliance as per Table 1.
- 2) Volume One JP1 (c)(ii) including NSW J(A)P1 (a) compliance when its use is verified by method JV3 as per Table 2.
- 3) Volume Two P2.6.1 including Vic P2.6.1 compliance when its use is verified by method V2.6.2.2 as per Table 2.
- 4) The Volume One state variations apply as follows:
 - a) In New South Wales NCC Volume One Section J is replaced by NSW Section J:
 - i) For Class 2 and Class 4 buildings, NSW BASIX applies in accordance with subsection J(A).
 - ii) For Class 3, 5, 6, 7a, 7b, 9a, 9b and 9c buildings, BCA Volume One Section J applies in accordance with NSW Subsection J(B).
 - b) In Northern Territory:
 - i) NCC 2009 Volume One Section J applies.
 - ii) Volume One Section J does not apply to Class 3 and Class 5 – 9 buildings.
 - c) In Queensland, NCC 2009 Volume One Section J applies for Class 2 buildings.
 - d) In South Australia, Volume One Addition J1.3(c) applies.
- 5) The Volume Two state variations apply as follows:
 - a) In the Australian Capital Territory, refer also to the ACT Appendix.
 - b) In New South Wales Parts 2.6 and 3.12 do not apply. New South Wales is subject to BASIX as per the NSW Addition.
 - c) In the Northern Territory Part 3.12 is replaced with BCA 2009 Part 3.12.
 - d) In Queensland, building work for the energy efficiency of Class 1 buildings is also regulated by the Building Act 1975 and the Queensland Development Code MP 4.1 - Sustainable buildings.
 - e) In Victoria, P2.6.1 is replaced by a variation.
- 6) An ASTEC Paint Manufacturer's Warranty must be issued on completion of the work.

Building classification/s: Unrestricted

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

The certification considers the solar absorbance, as used in the National Construction Code, and emissivity and solar reflectivity.

A2 Description of product

Refer to page 1.

A3 Product specification

The Energy Star Coatings shall be specified for compliance with the Deemed-to-Satisfy Provisions nominated on page 1 in accordance with Table 1. When specified for compliance using the Verification Methods JV3 in Volume One, or V2.6.2.2 in Volume Two, refer to Table 2.

Table 1

Building Code of Australia Clause	Volume Two 3.12.1.2 (a)(i)		Volume One J1.3 (b)	NSW BASIX Classification
Solar Absorbance requirement	0.6	0.4	0.45	Light < 0.475 Medium 0.475 - 0.700 Dark > 0.700
Complying Products				
Sportscoat	Yes	Yes	Yes	Light
EC 100 Dirtguard White	Yes	Yes	Yes	Light
Cool Pave White	Yes	Yes	Yes	Light
DG IR Elastic White	Yes	Yes	Yes	Light
ES Metal-Flex GLS/LS	Yes	Yes	Yes	Light
Tile Guard SM White	Yes	Yes	Yes	Light
Tile Guard White	Yes	Yes	Yes	Light
DG IR Gloss White	Yes	Yes	Yes	Light
GLS/LS White	Yes	Yes	Yes	Light
Ceram - 4000 White	Yes	Yes	Yes	Light
E100 T SM White	Yes	Yes	Yes	Light
Broken White	Yes	Yes	Yes	Light
C/B Smooth Cream	Yes	Yes	Yes	Light
Light Cream	Yes	Yes	Yes	Light

Certificate of Conformity

Building Code of Australia Clause	Volume Two 3.12.1.2 (a)(i)		Volume One J1.3 (b)	NSW BASIX Classification
Solar Absorptance requirement	0.6	0.4	0.45	Light < 0.475 Medium 0.475 - 0.700 Dark > 0.700
Complying Products				
Neutral White	Yes	Yes	Yes	Light
Armatex White	Yes	Yes	Yes	Light
Sandalwood	Yes	Yes	Yes	Light
Pale Biscuit	Yes	Yes	Yes	Light
Off White	Yes	Yes	Yes	Light
Light Latte	Yes	Yes	Yes	Light
Mid Biscuit	Yes	Yes	Yes	Light
Stone	Yes	Yes	Yes	Light
C/B Merino	Yes	Yes	Yes	Light
Gull Grey	Yes	Yes	Yes	Light
Tuscany	Yes	Yes	Yes	Light
C/B Birch Grey	Yes	Yes	Yes	Light
Autumn	Yes	Yes	Yes	Light
Pewter	Yes	Yes	Yes	Light
Chino	Yes	Yes	Yes	Light
Quarry	Yes		Yes	Light
Warm Clay	Yes		Yes	Light
Mocca	Yes		Yes	Light
C/B Saltbush	Yes		Yes	Light
C/B Beige	Yes			Light
French Green	Yes			Light
Clay Tone	Yes			Medium
C/B Rivergum	Yes			Medium
Terracotta	Yes			Medium
C/B Mist Green	Yes			Medium
C/B Slate Grey	Yes			Medium

Building Code of Australia Clause	Volume Two 3.12.1.2 (a)(i)		Volume One J1.3 (b)	NSW BASIX Classification
Solar Absorptance requirement	0.6	0.4	0.45	Light < 0.475 Medium 0.475 - 0.700 Dark > 0.700
Complying Products				
C/B Iron Bark	Yes			Medium
Olive Green				Medium
C/B Weathered Copper				Medium
Red Oxide				Medium
Regal Brown				Medium
C/B Heritage Red				Medium
Yallara Brown				Medium
Blue Grass				Medium
Nimbus				Medium
Cobalt				Medium
Charcoal				Medium
Pioneer				Dark
Botanic				Dark
Mid Brunswick Green				Dark
C/B Mountain Blue				Dark
Carriage green				Dark

Table 2

Solar Absorptance and Emissivity Values		
For use in verification by computer simulation to NCC Volume One JV3, or NCC Volume Two V2.6.2.2		
Product	Solar Absorptance	Emissivity
Sportscoat	0.09	0.92
EC 100 Dirtguard White	0.10	0.91
Cool Pave White	0.10	0.87
DG IR Elastic White	0.10	0.91

Solar Absorptance and Emissivity Values

For use in verification by computer simulation to NCC Volume One JV3, or NCC Volume Two V2.6.2.2

Product	Solar Absorptance	Emissivity
ES Metal-Flex GLS/LS	0.11	0.89
Tileshield SM White	0.11	0.88
Tileshield White	0.11	0.91
DG IR Gloss White Base	0.11	0.89
GLS/LS White	0.13	0.88
Ceram - 4000 White	0.13	0.90
Armatex White	0.13	0.94
E100 T SM White	0.17	0.91
Broken White	0.19	0.89
C/B Smooth Cream	0.22	0.88
Light Cream	0.21	0.86
Neutral White	0.22	0.83
Sandalwood	0.23	0.87
Pale Biscuit	0.25	0.90
Off White	0.25	0.93
Light Latte	0.29	0.90
Mid Biscuit	0.31	0.90
Stone	0.31	0.90
C/B Merino	0.32	0.90
Gull Grey	0.32	0.89
Tuscany	0.34	0.90
C/B Birch Grey	0.38	0.86
Autumn	0.39	0.90
Pewter	0.39	0.90
Chino	0.39	0.90
Quarry	0.40	0.90
Warm Clay	0.41	0.83

Solar Absorptance and Emissivity Values

For use in verification by computer simulation to NCC Volume One JV3, or NCC Volume Two V2.6.2.2

Product	Solar Absorptance	Emissivity
Mocca	0.42	0.90
C/B Saltbush	0.44	0.90
C/B Beige	0.46	0.85
French Green	0.46	0.90
Clay Tone	0.53	0.90
C/B Rivergum	0.56	0.83
C/B Mist Green	0.56	0.87
Terracotta	0.58	0.90
C/B Iron Bark	0.59	0.92
C/B Slate Grey	0.60	0.85
Olive Green	0.61	0.90
C/B Weathered Copper	0.61	0.90
Red Oxide	0.61	0.85
Regal Brown	0.61	0.91
C/B Heritage Red	0.63	0.82
Yallara Brown	0.63	0.90
Blue Grass	0.64	0.90
Nimbus	0.65	0.90
Cobalt	0.66	0.90
Charcoal	0.67	0.88
Pioneer	0.71	0.90
Botanic	0.72	0.90
Mid Brunswick Green	0.74	0.87
C/B Mountain Blue	0.75	0.92
Carriage green	0.75	0.90



Certificate of Conformity

A4 Manufacturer and manufacturing plant(s)

ASTEC Paints Australasia Pty Ltd, 22-24 Pinn Street, St Marys, South Australia, 5042.

A5 Installation requirements

Installation shall be carried out in accordance with Astec Paints APA Specification Sheets, the latest of which are available by contacting ASTEC Paints.

Installation shall be carried out by an ASTEC trained installer.

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendix A, A3 and Appendix A, A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with NCC 2019 incorporating Amendment No.1:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
Volume One JP1 (c)(ii)	Volume One A2.2(2)(a)	Volume One A5.2 (1)(e) – Certificate or report from a professional engineer	Items 1 and 2
Volume One J1.3 (b)	Volume One A2.3(2)(a)	Volume One A5.2 (1)(e) – Certificate or report from a professional engineer	Items 1 and 2
Volume Two P2.6.1 (e)(ii)	Volume Two A2.2(2)(a)	Volume Two A5.2 (1)(e) – Certificate or report from a professional engineer	Items 1 and 2
Volume Two 3.12.1.2 (a)(i)	Volume Two A2.3(2)(a)	Volume Two A5.2 (1)(e) – Certificate or report from a professional engineer	Items 1 and 2

B2 Reports

The following reports have been used as evidence to determine compliance with NCC 2019 incorporating Amendment No.1:

Ref	Author	Reference	Date	Description	NATA Registration
1	Quasar Management Services	D07092302-1	12/10/2007	Astec Paints Australasia Pty Ltd Energy Star Coatings CodeMark Certification Scope of BCA Compliance	N/A
2	Quasar Management Services	D07092330-1	12/10/2007	Consideration of Reflectance, Emissivity & Absorptance Data	N/A