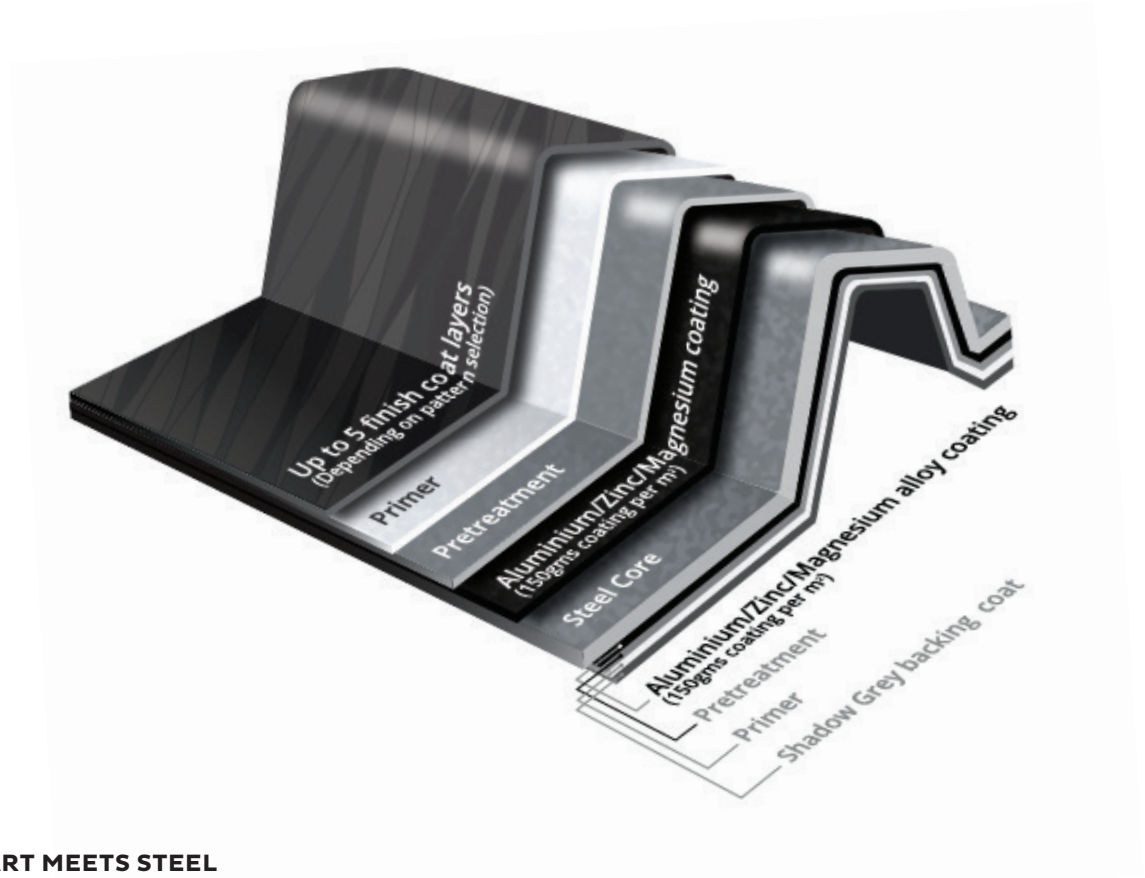
PRODUCT TECHNICAL STATEMENT



WHERE ART MEETS STEEL

UniCote® LUX is a premium pre-painted steel product designed to suit Australian high-end architecture. Combining the world's best coil coating technology with rigorous testing to Australian Standards, it ensures not only superior performance in the harsh Australian environment but also a stunning patterned and textured finish.

Suitable in atmospheric environments up to ISO 9223 - Category 4: Severe Marine.

Conforms to AS/NZS 2728:2013

MATERIAL BREAKDOWN

Substrate	Hot-dipped Zinc/Aluminium/Magnesium alloy coated steel coil. Alloy coating weight; Minimum 150g/m²
Pre-treatment	Corrosion resistant conversion coating
Primer coat	A flexible corrosion resistant primer. Nominal thickness is 7µms ± 1µms on the top side and 5µms ± 1µms (reverse)
Finish coat	Polyvinylidene Fluoride (PVDF). Nominal film thickness 35µms ± 8µms (pattern dependent)
Backing coat	Grey wash coat. Nominal thickness is 5µms ± 1µms
Protective Film	Available on request

RECOMMENDED END USES

UniCote® LUX is suitable for exterior and interior uses in ISO 9223:2012 Environmental Categories 1-3 for: Roofing, Cladding, Flashings and Internal Applications, Garage Doors and Accessories.

PRODUCT ATTRIBUTES

Property	Test Method	Results
Adhesion		
Reverse Impact	AS/NZS 2728:2013 (App. E)	≥ 10 Joules
T-bend	AS/NZS 2728:2013 (App. F)	Maximum 6T
Specular Gloss		
60” Meter	AS/NZS 1580.602.2 ASTM D523-14	N/A
Painted Film Hardness		
Pencil Hardness	AS/NZS 1580.405.1	HB or harder
Solvent Resistance	ASTM D5402-15	50 Double rubs
Scratch Resistance	AS2331.4.7	Needle carrying 1500g No marking evident
Resistance to corrosion		
Salt Spray (1000 hours)	AS/NZS 2728:2013, AS/NZS 1580.481.11 (Blisters), AS 1580.408.4 (Adhesion)	Blister density ≤ 2, Blister size ≤ 2, Undercut from scribe ≤ 2mm, No loss of adhesion, No corrosion to base metal
Cyclic Corrosion Test (2000 hours)	AS/NZS 2728:2013, AS/NZS 1580.481.11 (Blisters), AS 1580.408.4 (Adhesion)	Blister density ≤ 2, Blister size ≤ 2, Undercut from scribe ≤ 1mm, No loss of adhesion, No corrosion to base metal
Resistance to Humidity		
Cleveland (500 hours)	ASTM D4585, AS/NZS 1580.481.19 (Blisters), AS/NZS 1580.408.4 (Adhesion)	Blister density ≤ 2, Blister size ≤ 3, No loss of adhesion, No corrosion
Resistance to Colour Change		
QUV (2000 hours)	ASTM G154, ASTM D2244 (Colour)	ΔE CIEDE2000, Maximum colour difference ≤ 4 units
Resistance to Chalking		
QUV (2000 hours)	ASTM G154-16 & AS/NZS 1580.481.11.1:1998 (R2013) (Chalk Method B)	Chalk Rating ≤ 4 units
Resistance to Fire		
Exposure	AS/NZS 1530.3	Deemed non-combustible, Ignitability Index: 0, Smoke Developed Index: 0-2

Please note: This datasheet does not warrant Unicote for all purposes.

REFLECTANCE VALUES

Light Reflectance Values (LRV) refers to the total quantity of visible light that when illuminated by a light source is reflected by a surface. LRV runs on a scale from 0% (absolute black) to 100% (perfectly reflective white). However the amount of reflectivity will vary depending on the angle of incidence of the light onto the cladding surface and this must be taken into consideration in using these values.

NB: Slight variations in values may occur between different batches of product due to manufacturing tolerances.fixing into timber and minimum of three threads to pass through steel. When fastening through cavity battens, thermal break materials etc ensure the length of the screw is increased to accommodate the extra material.

Finish	Average LRV (Light Reflectance Value)
Metal Stone	47.5
Pentagon	47.5
Zinc Graphite	29
Silver Quartz	47.5
Ashwood	31.5
Weathered Iron	17.5
Corten Red	17.5
Spectrum	6
Saffiano	6
Maple	40
Wenge	15
Midnight Matt	2

N/A – Not Available
(1) Class 5 fasteners are recommended with steel-based material

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