04 August 2023

Data Sheet

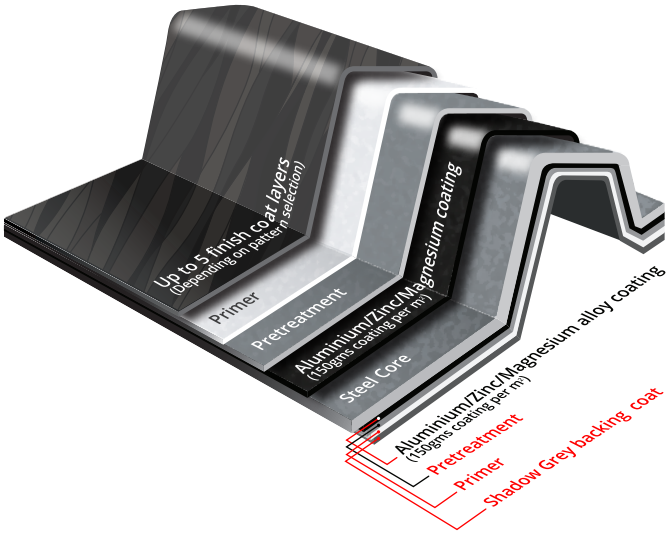
UniCote® LUX

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 Applicaitons, Garage Doors and Accessories.

Product attributes

Property	Test Method	Results
Adhesion		
Reverse Impact	AS/NZ 2728:2013 (App. E)	≥ 10 Joules
T-bend	AS/NZ 2728:2013 (App. F)	Maximum 6T
Specular Gloss		
60˚ Meter	AS/NZS 1580.602.2 ASTM D523-14	Not applicable
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 1580.481.1.9 (Blisters) AS 1580.408.4 (Adhesion)	Blister density ≤ 2 Blister size ≤ 2 Undercut from score ≤ 2mm No loss of adhesion No corrosion to base metal
Cyclic Corrosion Test (2000 hours)	AS/NZS 2728:2013 AS/NZS 1580.481.1.9 (Blisters) AS 1580.408.4 (Adhesion)	Blister density: ≤ 2 Blister size: ≤ 2 Undercut from score: ≤ 1mm No loss of adhesion No corrosion to base metal
Resistance to Humidity		
Cleveland (500 hours)	ASTM D4545 AS/NZS 1580.481.1.9 (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 Intermediate colour ≤5 units
Resistance to Chalking		
QUV (2000 hours)	ASTM G154-16 & AS/NZS 1580.481.1.11:1998 (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.