04 August 2023

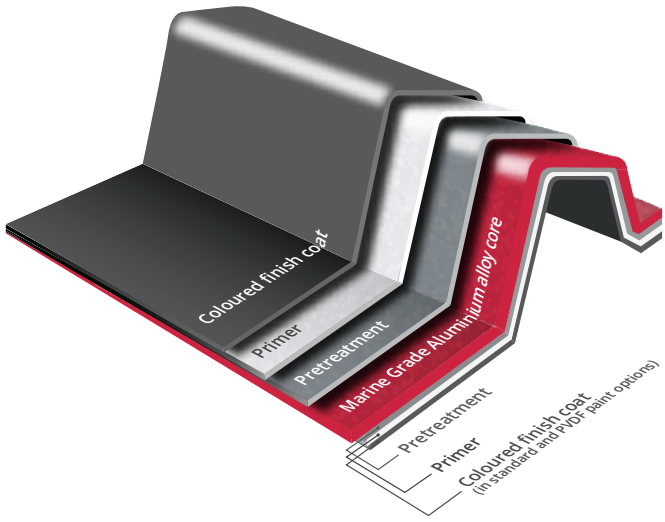
Data Sheet

UniCote® Extreme

For demanding environments

UniCote® Extreme is made from marine grade aluminium alloy – a premium roofing and cladding solution with the highest durability, formability and colour retention. UniCote® Extreme is made from the same marine grade allow used in the manufacture of water-craft, with its superior corrosion resistance is designed for all applications, including very severe marine and heavy industrial environments up to ISO 9223 - Category 5.

Conforms to AS/NZS 2728:2013



Material breakdown

Substrate	Type 5052, or 5005 Marine Grade Aluminium.
Pre-treatment	Corrosion resistant conversion coating.
Primer coat	A flexible corrosion resistant primer on both sides. Nominal thickness is 5µms ± 1µms.
Finish coat	Super Advanced Durable Polyester coating (SADP). Nominal film thickness 18µms ± 2µms. Available in standard 25% Gloss.
Backing coat	Grey polyester wash coat. Nominal thickness is 5µms ± 1µms.

Recommended end uses

UniCote® Extreme is suitable for exterior and interior uses in ISO 9223:2012 Environmental Categories 1–5 for: Roofing and Roofing Accessories, Wall Cladding & Rainwater Goods. Not recommended for use on applications where exposure to substances with a high pH is likely.

Product attributes

Property	Test Method	Results
Adhesion		
Reverse Impact	AS/NZ 2728:2013 (App. E)	≥ 6 Joules
T-bend	AS/NZ 2728:2013 (App. F)	Maximum 6T
Specular Gloss		
60˚ meter	AS/NZS 1580.602.2 ASTM D523-14	Nominal 25 ± 10 units Matt Finish ± 3 units
Painted Film Hardness		
Pencil Hardness	AS/NZS 1580.405.1	HB or harder
Solvent Resistance	ASTM D5402-15	Exceeds 50 Double rubs
Scratch Resistance	AS 2331.4.7	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)	Not applicable	Not applicable
Resistance to Humidity		
Cleveland (500 hours)	ASTM D4545 AS/NZS 1580.408.4 (Adhesion) AS/NZS 1580.481.1.9 (Blisters)	Blister density: ≤ 2 Blister size: ≤ 3 No loss of adhesion No corrosion to base metal
Resistance to Colour Change		
QUV (2000hrs)	ASTM G154 ASTM D2244 (Colour)	ΔE CIEDE2000 Intermediate colour ≤5 units
Resistance to Chalking		
QUV (2000hrs)	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 Extreme for all purposes.