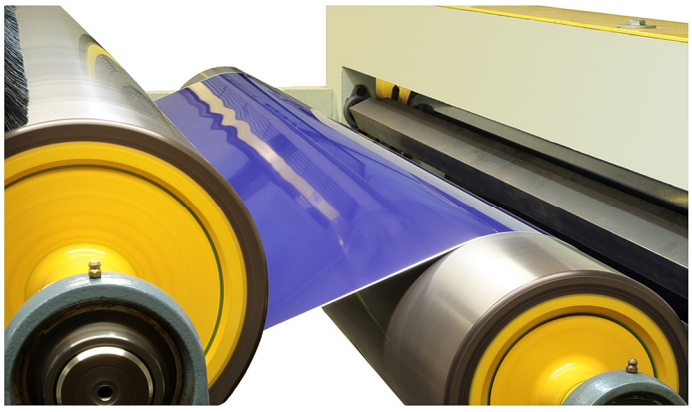
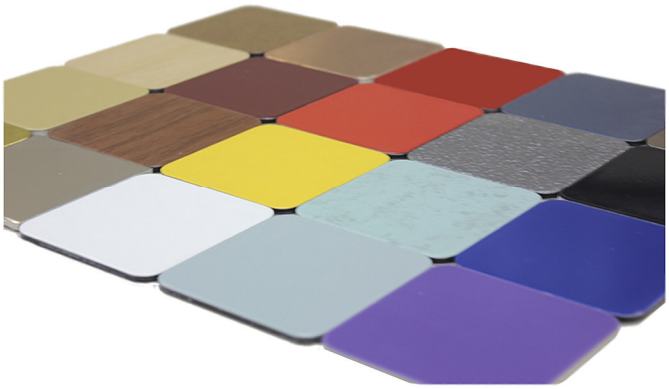
Alucoat® coil
Lacquered aluminium foil

Data Sheet

Alucoat® coil is the designation of ALUCOAT for the high thickness liquid lacquered aluminium products processed throughout our state-of-threat coil coating line. The use for these kind of products are the production of composite panels, profiled sheets, folded sheets, ventilation conducts and formats for different sectors. The aluminium is treated by **Alucoat® prelac**, a degreasing and pre-treatment process patented by ALUCOAT that improves protection against corrosion and the lacquer adherence over the aluminium surface.

Lacquers (PVDF, PE and HDPE) specially developed to meet the requirements of each end-use (exterior or interior applications) applied in liquid form, providing and uniform and smooth layer of paint. It has excellent flatness, surface finish and wide range of colors with constant color shades. Wide range of alloys, hardnesses, thicknesses and widths can be supplied according to the customer demand.





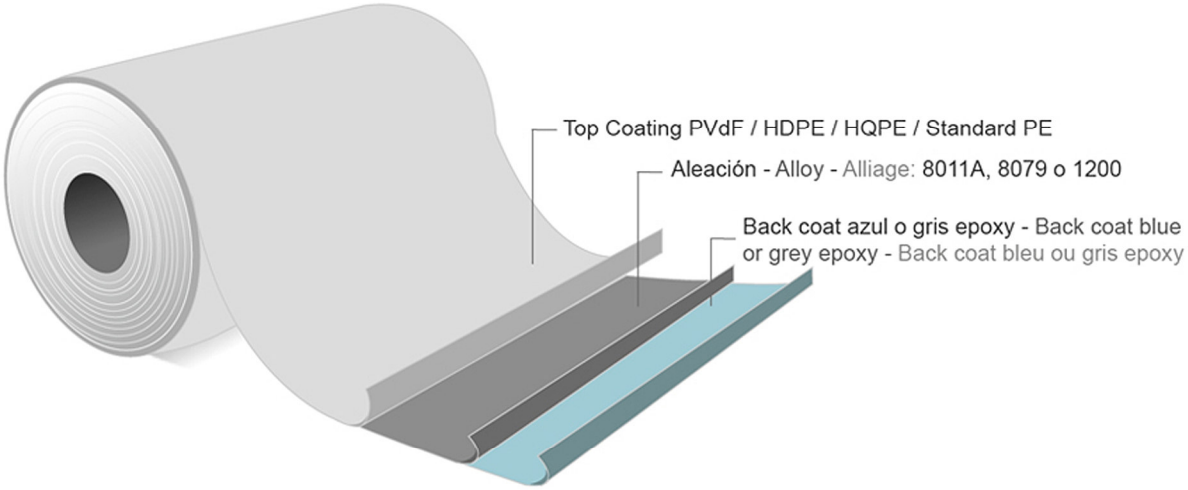
Specifications

•Alloys: series 1000, 3000, 5000 and 8000.
•Thickness: from 0.1 to 0.5 mm.
•Strip width: from 500 to 1.600 mm.
•Maximum outside diameter: 1.840 mm.
•Inside diameter: 150, 405 and 508 mm.
•Maximum coil weight: 6 tonnes.

Applications

•Building structures as façades, cladding and roofing, rain water guttering system and ceiling system.
•Caravan or trailer bodies for transport sector.
•Corporate identity: for production of different kinds of signs.
•Production of ventilation ducts.

Composition:



Top Coating:

TEST	METHOD	RESULTS		
Coating nature	--	**PVdF**	**HDPE/HQPE**	**Standard PE**
Thickness	ECCA T1	Color: 20 ± 2 µm Primer: 5 ± 2 µm or according spect.	Color: 18-20 ± 2 µm Primer: 5 ±2 µm or according spect.	Color 18-20 ± 2 µm or according spect.
Specular Gloss	ECCA T2	Standard ± 5 %	Standard ± 5 %	Standard ± 5 %
Colour difference	ECCA T3	ΔE < 1 (Non-metallics colors)	ΔE < 1 (Non-metallics colors)	ΔE < 1 (Non-metallics colors)
Polimerization	ILA-06	> 100 DF	> 100 DF	> 100 DF
Pencil Hardness	ECCA T4	≥ F	≥ F	≥ F
Impact	ECCA T5	100%	100%	100%
Adhesion (Cross cutting + Erichsen)	ECCA T6	> 75%	>75%	>75%
Bending	ECCA T7	≤ 1T	≤ 1T	≤ 1T
Resistant to salt acetic acid spray test	ECCA T8	1000 h / Class 3 (According to EN 1396/C.6.5) (Depends on specification)	1000 h / Class 3 (According to EN1396/C.6.5) (Depends on specification)	1000 h / Class 1 (According to EN1396/C.6.5)
Water immersion resistance	ECCA T9	1000 h - B2S2	1000 h - B2S2	--
Resistance to QUV-B test	ECCA T10	1000 h Gloss Retention ≥90% ΔE ≤ 2	1000 h Gloss Retention ≥80%ΔE ≤ 3	500 h Gloss Retention ≥30% ΔE ≤ 5
Florida test	--	Class 3 (According to EN 1396/C.6.3)	Class 3 (According to EN 1396/C.6.3)	Class 3 (According to EN 1396/C.6.3)

Standard Back:

TEST	METHOD	RESULTS
Thickness coating	ECCA T1	5 ± 2 µm
Bending	ECCA T7	≤ 2T
Polimerization	ILA 06	> 100 Double roubs
Adhesion after Cross cutting	ECCA T6	OK
Adhesion after Erichsen	ECCA T6	OK
Resistance to Salt Spray	ECCA T8	1000 hours

Back coat epoxy blue:

•Good adhesion to adhesive and PU foam
•Good resistance to corrosion

Back coat epoxy grey:

•Good adhesion to PE (composite panel)
•Good resistance to corrosion

Recommended alloys:

EN AW 3105, EN AW 5005, EN AW 8011A (according to European Standards (EN 573-3)). Customer can specify its needs in order to choose the best thickness, alloy and temper of the metal.