

ALUCOPANEL®

www.alucopanel.net



**DUBAI'S LEADING COMPANY TO MANUFACTURE UPTO
TWO-METER-WIDE COILS**

ALUCOPANEL®



Fire Safety First Priority

Aluminium Coil Coating

About Us



ALUCOPANEL® is a leading brand manufacturing Aluminium composite panels in Dubai and is also the focal brand of Alucopanel Middle East LLC which is the vertical under highly renowned building material company, Danube group. With journey of 25 years in Dubai, ALUCOPANEL now serves its presence with sales support all over Middle East including UAE, Oman, Bahrain & Saudi Arabia.

At ALUCOPANEL we believe in manufacturing and supplying inspiring designs of FR and A2 grade aluminium composite panels adhering to the best practices worldwide along with full compliance as per the Latest Edition introduced as UAE Fire & Life Safety Guidelines.

With the recognition of selling the world class products, Alucopanel is 1st in the World to comply with Latest Edition of UAE Fire & Life Safety Guidelines with the track record of being the First Company in the Globe to get approval from Dubai Civil Defence for its ALUCOPANEL® A2 Class A2-s1, d0 aluminium composite panels, apart from Civil Defence Dubai, we also have approval from Civil Defence Sharjah, Abu Dhabi, Ajman, R.A.K, Oman, & Bahrain.

We proudly claim to hold complete know-how of aluminium composite panels & its related systems and with our expertise we offer comprehensive solutions to each of its client in terms of producing high quality panels and its accessories. We value our customers and therefore have built in three large capacity, modern manufacturing plant for the maintenance of large stocks of materials. So that completion and timely deliveries are never an unmet challenge.

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Premium Coil Coating Factory



Alucopanel established its coil coating plant in May'2018 for in house orders and direct customer requirements with a mission to colour the world with its 'Fire Safe Products'. The company provides pre-coated aluminium for a wide range of ACP, Roofing & Internal Ceiling Solutions and Building Panels. We focus on individual customer satisfaction. Therefore, we make sure to provide close technical cooperation to you.





We make
sure you
are always
our first
priority



At Alucopanel, each coil is tested with highly automated process leading to a high quality surface with warranty lasting for more than 20 years.

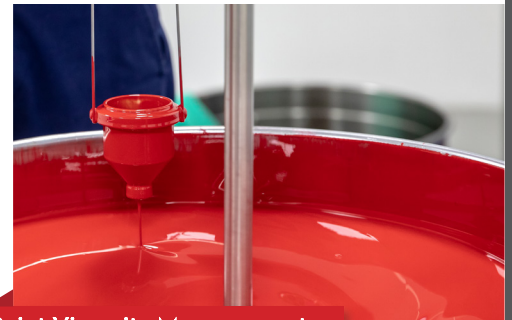
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4 Step Quality Process

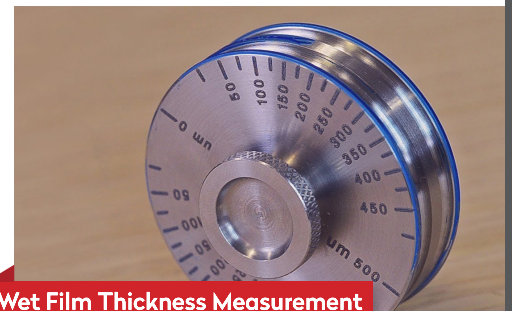
Since we focus on individual customer satisfaction, we make sure to provide close technical cooperation to you.

Pre-Production Tests

1. Paint Viscosity Measurement in accordance to ASTM D5125
2. Measurement of Wet Film Thickness in accordance to ASTM D 1212 and ISO 2808
3. Automatic Film Application -Lab Sample Preparation in accordance to ASTM D 2244
4. Aluminum Substrate Physical & Mechanical Properties in accordance to ASTM B209M



Paint Viscosity Measurement



Wet Film Thickness Measurement

Online Tests



Dry Film Thickness



Specular Gloss 60°

1. Aluminum Substrate Pre-Treatment Conductivity Test in accordance to DIN 38404 and ISO 7888
2. Wet Film Thickness in accordance to ASTM D 1212 and ISO 2808
3. Dry Film Thickness in accordance to ASTM D 7091
4. Visual Color Assessment in accordance to ASTM D & 2244
24X7 Online visual Inspection
5. Specular Gloss 60° in accordance to ASTM D 89-523

Post Production Tests

1. Dry Film Thickness Test in accordance to ASTM D 7091
2. Color Difference Test in accordance to ASTM D 2244
3. Impact Test in accordance to ASTM D2794- and ISO 2-6272
4. Erickson Cupping Test in accordance to ASTM 84-643 and ISO 1520:2006
5. Film Adhesion Test by Boiling Water to AAMA 2605
6. Film Adhesion Test by Scratch Resistance to AAMA 2605
7. Pencil Hardness Testing in accordance to ISO 15184 and ASTM D3363
8. Coating Flexibility T- Bend Test in accordance to ASTM D 4145
9. Specular Gloss- 60° in accordance to ASTM D 89-523
10. Solvent Resistance Rub Test in accordance to ASTM D4752



Erickson Cupping Test



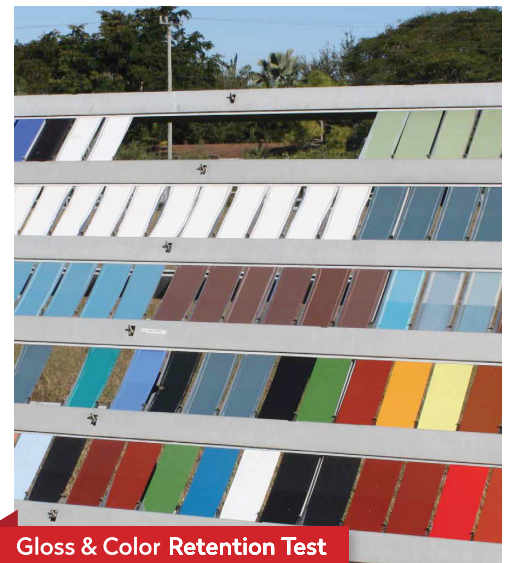
Color Difference Test

Durability Tests

1. Salt spray resistance in accordance to ASTM B117
2. Humidity Resistance Test in accordance to ASTM D2247
3. Gloss & Color Retention in accordance to ASTM D523, ASTM D2244
4. Chalking Resistance in accordance to ASTM D 4214



Salt Spray Resistance Test



Gloss & Color Retention Test

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Coating Range

PVDF Coating (Polyvinylidene Difluoride)

Our Premium-performance fluoropolymer coating provides superior flexibility along with excellent UV protection, enhanced color retention and resistance to chalking. A minimum of 70% polyvinylidene (PVDF) resin, this unique mixture of organic compounds including 30% of Acrylic resins.

PE Coating (Polyester)

Although not exclusive to coil coatings, amino cross linked polyesters are a predominant chemistry in that technology. There is an almost infinite variety of polyesters that can be used because there are a number of difunctional and trifunctional glycols that can be used in combination with aromatic, aliphatic and cycloaliphatic diacids. Variations in functionality and molecular weight allow primers and topcoats to be formulated such that corrosion resistance and UV/moisture durability can be manipulated along with formability.

HDPE Coating (High Durable Polyester)

Made with thermoplastic coatings, this product is excellent, flexibility impact resistance, UV stable and resists stress cracking.

FEVE Coating (Fluoroethylene Vinyl Ether)

It is a remarkable second generation fluoropolymer coating, leading the product to be excellent for weather ability and making it more chemical-resistance. The feve coated coils include a wide range of gloss, excellent adhesion, recoatability and even ambient cure characteristics.

PU Coating (Polyurethane)

Enhanced with specialty additives, polyurethane coating products are characterized by exceptional resistance to corrosion, abrasion, chemicals and weathering processes. Due to this versatility, you will find polyurethane used as a primer, intermediate coat or a topcoat depending on the needs of the application.

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Coil Coating Specifications

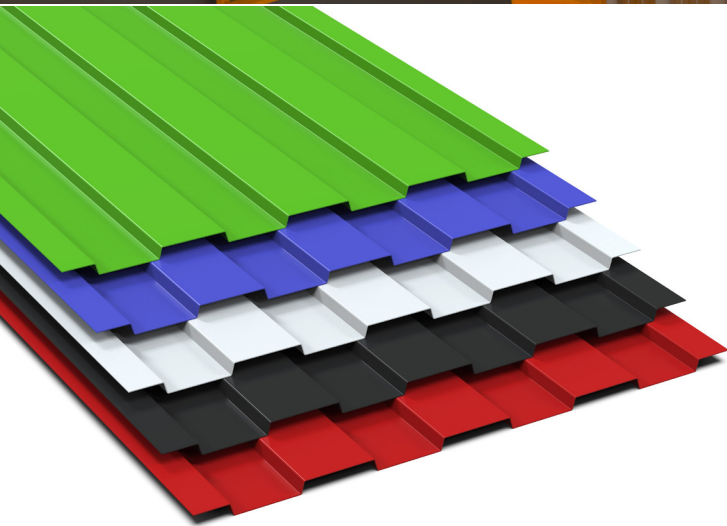
COIL AND COATING PERFORMANCE SPECIFICATIONS

Manufacturer: ALUCOPANEL MIDDLE EAST L.L.C PO Box 18022, National Industries Complex, Dubai, United Arab Emirates	ALLOY:	1100/ 3003/ 3105/ 5005
	TEMPER:	H14/ H15/ H16/ H18
	Coil Thickness:	0.18 - 1.0mm
	Width of Coil:	600- 2000mm
	Coating Type:	High Polymer Primer/PE/ HDPE/ PVDF/ FEVE

CATEGORY	TEST NO.	PROPERTIES	TEST STANDARD	REQUIREMENT
COIL SPECIFICATION	1	Tensile Strength	ASTM B209	Min: 172N/mm ² Max: 221N/mm ²
	2	Yield Strength	ASTM B209	Min: 145N/mm ²
	3	Elongation	ASTM B209	Min: 1.00%
COATING PERFORMANCE	4	Color Difference Test	ASTM D 2244	$\Delta E \leq 2.0$
	5	Color Matching Cabinet	ASTM D 1729	Visual Inspection
	6	Dry Film Thickness (DFT) Test	ASTM D7091	Primer Coat: 5-7 μ m 2-Coat: $\geq 20\mu$ m 3-Coat: $\geq 30\mu$ m
	7	Specular Gloss @60	ASTM D 523- 89	In reference with Master Sample $\pm 5\%$
	8	Pencil Hardness Test	ASTM D3363	HB- 4H
	9	Film Adhesion Test by Scratch Resistance	AAMA 2605, ASTM D3359-09e2	No Removal of paint
	10	Film Adhesion Test by Boiling Water	AAMA 2605	No Removal of paint
	11	Solvent Resistance Test	ASTM D 4752	No removal of paint @ 100 DBR
	12	Coating Flexibility T - Bend Test	ASTM D 4145	$\leq 2T$
	13	Impact Resistance Test 50 kg-cm	ASTM D 2794	No crack and Paint Peel-off
	14	Salt Spray Resistance	ASTM B 117	There should be no blistering rating exceeding 2S2 on the un-scribed area and an average under-creep length of 2mm (either side) at the scribed mark, according to ISO 4628-ASTM D714 (Blister) and ASTM D1645
	15	Humidity Resistance	ASTM D 2247	Blister rating should not exceed more than 2S2 according to ISO 4628-ASTM D714
	16	Gloss and Color Retention	ASTM D 523, ASTM D 2244	There shall be NO Color change ≤ 5 DE and Gloss Retention $>20\%$
	17	Chalking Resistance	ASTM D 4214	Chalking Rating: 6, after 1000 hours exposure to UV-B

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Product Application



- Roofing & Claddings
- Facade & Awnings
- Interior Ceilings
- Sign Boards
- Rain Water Goods Like Gutter, Downspout
- Cold Storage/Food Storage
- Food Processing Centers
- Hospital / School And Hygiene End Uses



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Glimpse of Completed Projects



Mixed Use Building - Bur Dubai



Jewel of the Creek



IKEA- Jeddah



**80+ On-going
Projects**

ENBD - Citywalk



