

## SUPRAAL paint

### Main features

Reynolux<sup>®</sup> Building pre-painted aluminum offers an outstanding corrosion resistance thanks to the coil-coating technology. The advantages are particularly obvious for large area applications, which place exceptionally high demands on evenness in colours.

SUPRAAL is a specific high build 2-coat system developed by us. It presents three major advantages:

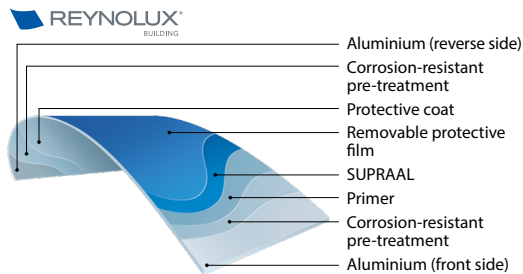
- Flexibility: SUPRAAL shows a very good flexibility, which is indeed required for transformations such as bending and profiling.
- Aesthetics: SUPRAAL offers a large range of colours with light granular texture (rough)
- Durability: this coating does not only present a very high resistance to aging, UV and corrosion but is also efficient against chalking. It is well suited for aggressive environments and extreme climatic conditions but is also well adapted to every kind of climates.

Alcoa Architectural Products warrants up to 15 years in severe environments following specific transformation and installation requirements. Further details are available in the warranty document and at our technical department.



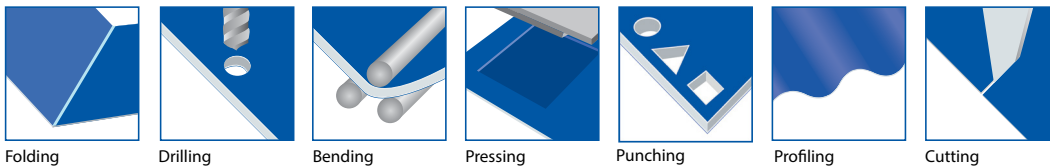
### Applications

Reynolux<sup>®</sup> Building SUPRAAL paint is especially developed for outdoor applications such as facades and roofs both in the area of new buildings as well as refurbishment. Reynolux<sup>®</sup> Building can be installed as clapboards, claddings, trapezoidal sheets, sandwich panels, siding or as cassette systems. However, our SUPRAAL paint has also been developed for interior coverings: for ceilings or swimming pool buildings' roofs, interior walls and ceilings for example.



### Fabrication

Below you can find the main fabrication methods for Reynolux<sup>®</sup> Building:



### Cleaning

Please refer to the cleaning instructions of the technical datasheet "Maintenance guidelines for Reynolux<sup>®</sup> pre-painted aluminium".

### Manufacturer's particulars and installers qualifications

Our customers are all different and thus have specific needs, as well as specific machines and tools. They should therefore make tests to find the paints and metals that are appropriate to their needs and applications according to their market, as well as to confirm the material they will use.

### References

STANDARD: Plain colours, metallics  
Option: Greenshield



Performance and durability of Reynolux® pre-painted aluminium		2-coats
Coating thickness depending on colour	EN 13523 – 1 ASTM D 7091	45 µm
Specular gloss	EN 13523 – 2 ASTM D 523	Satin
Durability class	NF EN 1396	Class 4: severe industrial – extreme conditions, very severe costal marine (less than 3,000 m from the sea), high UV plus severe conditions
Pencil hardness	EN 13523 – 4 ASTM D 3363	HB – F
Resistance to cracking on rapid deformation	EN 13523 – 5 ASTM D 2794	No cracking, no loss of adhesion
Adhesion after indentation	EN 13523 – 6 ASTM D 3359	100 % of adhesion
Resistance to cracking on bending	EN 13523 – 7 ASTM D 4145	Very good flexibility (0,5T), depending on alloy and temper
Acetic salt spray fog resistance	EN 13523 – 8 ASTM G 85	1,000 h
Water immersion resistance	EN 13523 – 9 ASTM D 870	3,000 h
Humidity resistance	EN 13523 - 25 ASTM D 2247	3,000 h
Mortar test	AAMA 2605	No effect
Acid resistance 10 % HCl solution (15 min /23 °C) 20 % H2SO4 solution (18 h /23 °C) Nitric Acid	AAMA 2605 ASTM D 1308	Hydrochloric acid: no effect Sulphuric acid: no effect Nitric acid: ΔE < 5 units except some blue and metallic colours
Detergent resistance: 3 % VIGOR solution (72 h /30 °C)	AAMA 2605	No effect
Colour fastness on natural weathering	Florida Exposure 45° South EN 13523 - 3 ASTM D 2244	After 5 years exposure: Colour variation: 5– 10 units (ΔE) depending on colour
Resistance to chalking on natural weathering	Florida Exposure 45° South ASTM D 4214	Rating ≥ 8
Fire certificates France	NF P 92 – 501	M0 incombustible
Fire certificates Europe	EN 13501	A1

### Alcoa, responsible market leader in aluminium

Reynobond® aluminium composite panels and Reynolux® pre-painted aluminium are fabricated and coated in France based on 50 years of experience. Coil-coating is the most economical, efficient, high-quality and environmentally friendly method for applying coatings to aluminium panels.

As a member of the ECCA (European Coil Coating Association) we comply with the ISO and EN standards in all the countries we supply, and especially with the NF EN 1396: "Aluminium and aluminium alloys. Coil-coated sheet and strip for general applications".

Alcoa also uses environmentally-friendly materials and complies with ISO 14001, which shows the voluntary commitment of the company to reduce its impact on the environment at all levels: water, energy, waste and use of resources. Our Reynolux® coil-coated sheets are 100 % recyclable. Moreover we develop continuously by improving the coatings in term of their composition (solvents and pigments), durability and cleaning requirements.



ISO 14001  
EMS 90851



OHSAS 18001  
OHS 572 475



ISO 9001  
FM 90850



Reynolux®: EN 15088  
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