Shandong Sino Metal Co., Ltd

PREPAINTED ALUMINUM COIL PPAL

Prepainted aluminum coils use aluminum coils as substrate, and paints on a continuous painting lines, finally produce colorful aluminum coils in different colors and patterns.

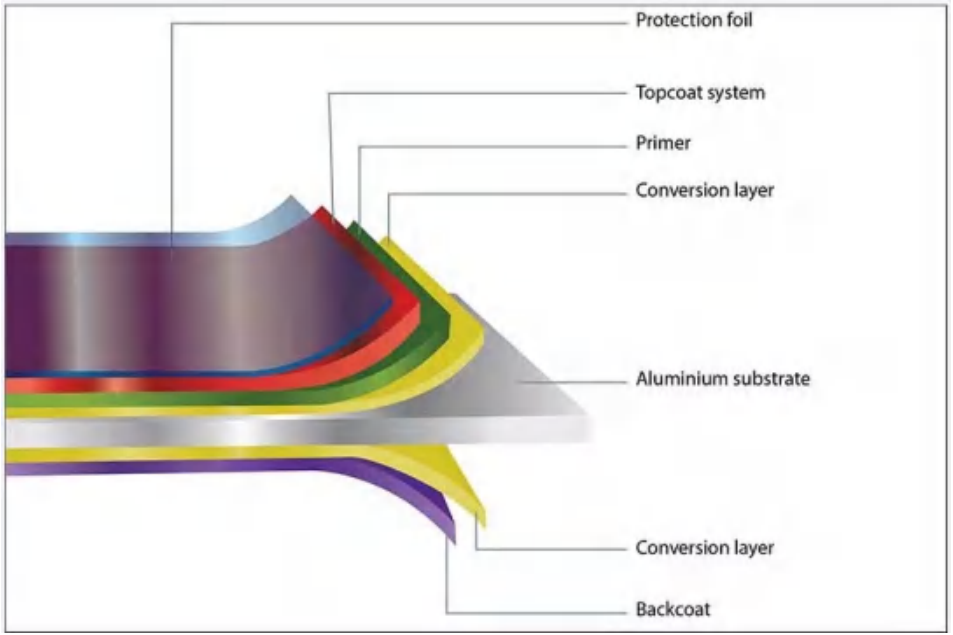
Coil coating is a continuous and highly automated process for coating metal before fabrication. In one continuous process both the top and bottom sides are cleaned, chemically treated, primed, oven cured, top coated, oven cured again, rewound and packaged.

Coil coating provides beautiful topcoats, durable surfaces, innovative applications, green benefits, and cost savings as compared to other substrates and other coating options.

Production description

Coating stypes: color coated aluminum coils can be divided into polyester (PE) coated aluminum coil, fluorocarbon (PVDF) coating aluminum coil and Epoxy coated aluminum coil.

Coating thickness: It can be divided into single-coated aluminum coil (4-20 microns); double-coated aluminum coil (25 to 28 microns) and triply-coated aluminum coil (35-38 microns).



PAINT SYSTEMS

Primers
Epoxy – Polyester (Chrome – Chrome Free); for excellent corrosion and intercoat adhesion

Top coats
Polyester – PUPA; general and high durable coatings for roofing and cladding

Polyvinylidene fluoride(PVDF)
for extreme outdoor durability including 20 year performance warranty.

Abrasion resistant systems
coating systems for the rolling shutter market.

NIR Curing coatings
for ultra-short curing cycle systems at very high line speed.

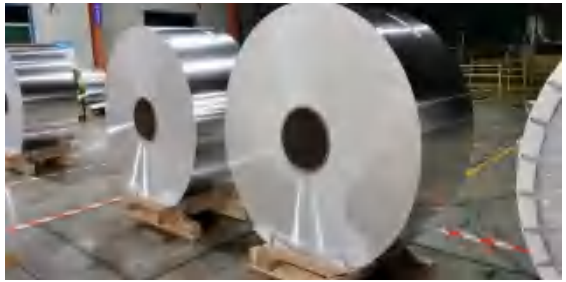
Mono-Coat, single layer systems
for cost economic applications.

Ultra durable systems for ACP panels
for prestige – land marking and iconic buildings.

Specification

Product category	Polyester/PE color-coated aluminum	Fluorocarbon /PVDF color-coated aluminum
Aluminum coil thickness(mm)	0.25-1.8	0.25-1.8
Coating thickness(um)	top≥15，back≥5	top≥25，back≥5
MEK	≥100	≥200
T bend	top≦2T，back≦3T	top≦2T，back≦3T
Impact	50kg.cm	50kg.cm
adhesion	0 Grade	0 Grade
Pencil hardness	≥2H	≥2H
Boiling water Proof	no change within 2 hours	no change within 2 hours
Typical alloy	1100、1050、1060、3003、	
	3004、3005、3104、3105	
Typical status	H14、H16、H18、H24、H26	

Color: RAL K7 or customernized colors



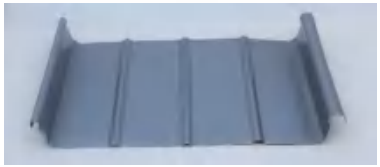
SINO METAL

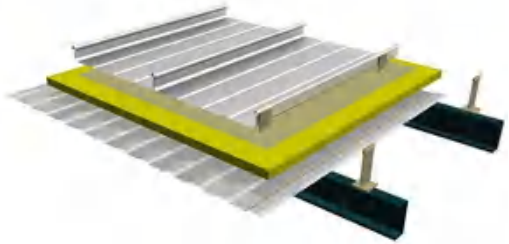
Different patterns/styles

Prepainted aluminium coils application

PPAL is widely used in airport terminals, aircraft maintenance warehouses, stations and large transportation hubs, conference and exhibition centers, stadiums, Exhibition halls, large public entertainment facilities, public service buildings, large shopping malls, commercial facilities, and residential buildings.

USED FOR ROOFING SYSTEM

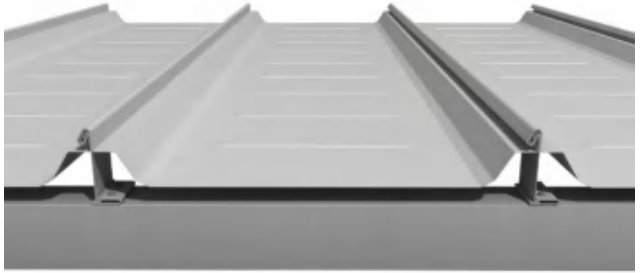




The 270 ° occlusion process of this roofing system is an automatic occlusion machine that snaps and bites both sides of the single support. It is fully automatic and professionally operated. Physical displacement caused by shrinkage. This advantage is reflected in the fact that the longitudinal and long-span roof system is not deformed by internal and external forces. At the same time, the complete supply of accessories for this roof system can meet the requirements of various building forms

USED FOR ROOFING SYSTEM

The aluminum magnesium manganese roofing system has many advantages such as corrosion resistance, beautiful appearance, light weight, high strength, and easy processing and molding.



APPLICATION FIELD