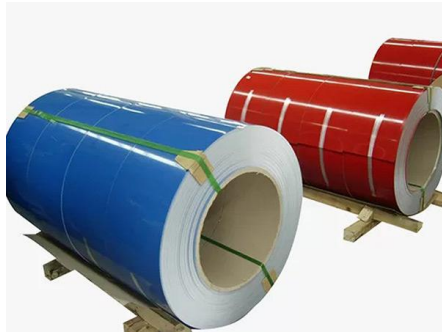




Prepainted Aluminium Coil



Prepainted aluminum coil is a type of aluminum sheet that has been coated with a layer of paint or other protective finishes in coil form before being fabricated into end products.

BCM's pre-painted aluminum coils are available in a wide variety of colors, finishes and textures. They are lightweight, easy to handle, and have excellent formability, making them ideal for a variety of applications including architectural facades, roofing, cladding and more.

Specification of Prepainted Aluminum Coil:

Alloy	1050, 1060, 1070, 1100, 3003, 5052, 5052, 5005, 5006, 5052, 5754, 5182
Thickness	0.2-1.5mm
Width	600-1500mm
Coating Surface	PVDF/ PE/HDP/FEVE/EOXY/ PU
Coating Thickness	Single Coating (4-20 Um)
	Double Coating (25-28 Um)
	Triple Coating (35-38 Um)
Temper	O,H12,H22,H14,H24,H16,H26,H18,H26,etc.
Color	All Ral Color or As Request
Type	Coil, Sheet, Strips, Plate, Foil
Applications	Roofing System and Ceiling Decoration
Supply Ability	200000 tons per year
MOQ	2 tons per size

Standards and Specifications

ASTM	B209
ISO	ISO 26204 (alloy designations), ISO 6892 (mechanical testing),ISO 9001,ISO 14001.
UNS	A91050 (United States Numbering System)

Coating Options:

- **PE(Polyester) Coating:** A common choice for outdoor applications due to its durability and resistance to fading.
- **PVDF (Polyvinylidene Fluoride) Coating:** Offers superior weathering, UV resistance and a long lifespan, often used for architectural applications.

Warrantly:

Regular PE: 3-5 years;



High Performance PE: 6-9 years;

PVDF: 15 years;

FEVE: Two coats: between 10-15 years; FEVE: Three coats: 15-20 years.

Technical Data:

Coating	POLYESTER	PVDF
Item	Technical requirements	Technical requirements
Thickness of coating film	$\geq 18 \mu\text{m}$	$\geq 25 \mu\text{m}$
Gloss deviation	gloss < 70, tolerance $\leq 10\%$	gloss < 70, tolerance $\leq 10\%$
	gloss ≥ 70 , tolerance $\leq 5\%$	gloss ≥ 70 , tolerance $\leq 5\%$
Hardness of pencil	$\geq 3\text{H}$	$\geq 3\text{H}$
Adhesion	no lower than class 1	no lower than class 1
Flexibility	$\leq 2\text{T}$	$\leq 2\text{T}$
Boiling water resistance	no change (2h)	no change (2h)
Color difference	$\Delta E \leq 2.0$	$\Delta E \leq 2.0$
MEK	≥ 100 times	≥ 150 times

Color Options

Standard Color

The standard color of prepainted aluminum coil is modulated according to the Ral color card. The basic colors are red, yellow, blue, green, white, gray and other colors and their derivative colors, which are suitable for most conventional applications.

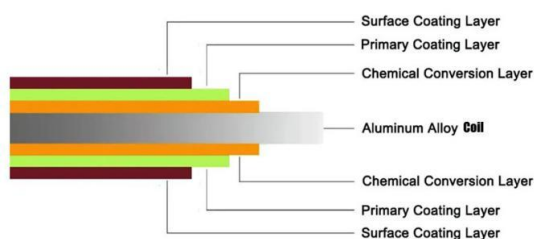
Metallic Colors

The Metallic color of prepainted aluminum coil simulate metal textures, such as silver gray, bronze, rose gold, etc., which add a sense of luxury and class to the product and are often used in high-end architectural decoration.

Printing Series

The printing series achieve natural texture effects such as wood grain and stone grain through special coating technology, providing more diversified choices for architectural design, suitable for places that pursue natural and environmental protection concepts.

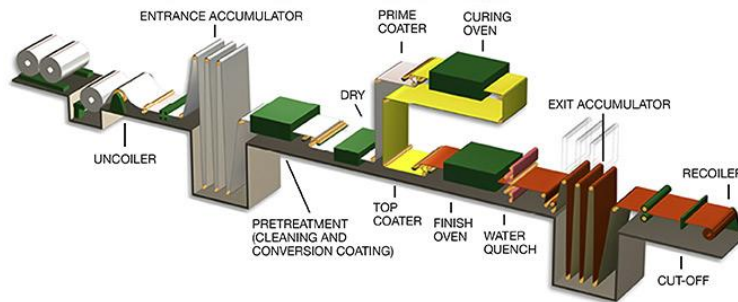
Structure of Prepainted Aluminium Coil





Process of Coil Coating

The aluminum substrate is delivered in coil form from the rolling mills. The aluminum coil is positioned at the beginning of the coating line, and in one continuous process, the coil is unwound, pre-cleaned, pre-treated, pre-primed, and prepainted before being recoiled on the other end and packaged for shipment.



Advantages of Prepainted Aluminum Coil:

1. Small Density: The density of aluminum is only about one-third of steel. In the case of same thickness, calculate the final price on square meter basis, they are almost same.
2. Excellent Processability: Due to moderate structural strength of aluminum, it's easy for processing and convenient to installation, which can reduce construction cost.
3. Nice Decoration: Use aluminum for external insulation decoration, it have bright overall visual. With the addition of paint coating process, that make architectural appearance much more colorful and lively.
4. Long Period Of Validity: Because of the outstanding corrosion resistance, the period of validity can reach above 25 years under normal conditions.
5. High Recovery: The recovery rate can reach 85%.

Applications of Prepainted Aluminium Coils:

Building and Construction: Used in roofing, siding, gutters, and architectural panels.

Transportation: Commonly used in the manufacturing of trailers, trucks, and buses.

Consumer Goods: Found in appliances, electronic casings, and furniture.

Signage: Used for outdoor signage due to its durability and weather resistance.

Packaging:

- 1) LCL by wooden pallet package, fumigation wooden pallet is available
- 2) FCL by wooden pallet package loaded in the container
- 3) FCL in bulk loaded in the container
- 4) Customized package according to your demands

Shipping:

7-15 days after receipt of payment(depend on order quantity)