新 宇

GLOBAL COATING STEEL SOLUTION EXPERT

TIANJIN XINYU COLOR PLATE CO., LTD.

新 宇

COMPANY PROFILE

TIANJIN XINYU COLOR PLATE CO., LTD.

Tianjin Xinyu Color Plate Co., LTD. was established in 2002 and located in Tianjin, a beautiful coastal city by Bohai. It is a high-tech enterprise specializing in the production, R&D, sales, and service of coated and pre-painted steel plates. With a registered capital of 300 million RMB, the company employs more than 2,000 people and operates three production bases equipped with over 30 internationally advanced production lines. It also has two brother companies: Tianjin Haoyu Century Import and Export Co., Ltd. and Tianjin Yurunde Metal Products Co., Ltd. The company's annual production capacity is 3.5 million tons, with a single production capacity of 2.6 million tons for pre-painted steel plate.

Xinyu primarily engaged in the production of cold-rolled plate, black annealed plate, galvanized plate, zn-al coated plate, al-zn coated plate, zn-al-mg coated plate and various types of pre-painted steel plates. These products are widely used in construction decoration, household appliances, electrical engineering, automotive manufacturing, military industry, transportation facilities, agricultural and livestock, and metal products. Our sales network covers 34 provinces, cities and autonomous regions in China, and our products are exported to over 60 countries and regions worldwide.

Xinyu is committed to becoming a global expert in coated and pre-painted steel solutions, with a long-term focus on the design, R&D, testing, optimization of highly corrosion-resistant, long-lasting and eco-friendly coated steel materials. Through continuous innovation in the coated steel plate sector, our company has launched over 200 products, including antiviral plates, high-build fluorocarbon plates, diffuse reflection plates, self-cleaning thermal insulation plates and BIPV specialty photovoltaic plates. it has also obtained more than 300 authorized patents.

Since its establishment, Xinyu has consistently adhered to “quality-driven development ” path, strictly following the ISO 9001 Quality Management System in production. It has obtained Grade A ‘Integration of Informationization and Industrialization Management System Certification’ and the 'Green Building Preferred Product' label.

The company has been honored with numerous titles, including High-tech Enterprise, National Civilized Unit, Top 100 Enterprises in Tianjin, Tianjin Science &Technology Leading Enterprise, Tianjin Enterprise Technology Center and Tianjin Industrial Design Center. The functional pre-painted steel plates were recognized as ‘Manufacturing Single Champion Product’ by the Ministry of Industry and Information Technology (MIIT). In 2023, XINYU was selected for the MIIT’ s ‘Green Factory’ list, with its ‘Supply Chain Visualization’ and ‘Intelligent Warehousing’ scenarios named ‘Annual Smart Manufacturing Excellence Scenarios’ . It was recognized as one of Tianjin’ s Top 10 Demonstration Units for Labor Competitions among non-public enterprises.

For over 20 years, Xinyu has consistently regarded social responsibility as the foundation of its cooperate development, dedicated to upholding the traditional virtues of helping those in need, the company has committed itself to poverty alleviation, agricultural support and education assistance. According to incomplete statistics, since 2013, Xinyu has donated over 40 million RMB in funds and materials to society and impoverished areas.

In the future, Xinyu will continue to uphold its commitment to quality, drive development through innovation and further cultivate the spirit, values, and strength of Xinyu.

BRAND STRENGTH

XINYU

In 2005, the "XINYU" brand trademark was successfully registered, marking the establishment of Tianjin Xinyu's unique mid-range product brand. Over 20 years of development, it has gained strong market trust due to its outstanding brand strength.

TIANYU

In 2017, the high-end product brand – "Tianyu" trademark was successfully registered. Tianyu products, with their excellent performance, are widely used in both international and domestic mid-to-high-end board projects.

ZEXX

In 2023, in order to implement the concept of green development to meet the growing demand of high-end users, Xinyu launched a strategic brand upgrade, through innovative concepts, iterative technology, perfect service, high-end coated products and excellent service support into a new ‘one-stop green solution for coated panels’ - ZEXX.

ZEXX is dedicated for high-end engineering projects, with its products characterized by low carbon emissions, energy efficiency, corrosion resistance, and aesthetic color retention. Its diverse sub-categories provide customized functional support for different applications.

新宇®

天宇 tianyu®

ZEXX 至新新特

PRODUCT OVEVIEW

Pre-Painted Steel Plate | **Zn-Al-Mg Coated Plate** | **Al-Zn Coated Plate**

Zn-Al Coated Plate | **Galvanized Plate** | **Cold Rolled Plate**

Product Type	Galvanized Plate	Zn-Al Coated Plate	Al-Zn Coated Plate	Zn-Al-Mg Coated Plate		Pre-Painted Steel Plate
				Medium Aluminum	High Aluminum	
Grades	DC51D~DC56D, S250GD,S280GD, S300GD,S350GD, S420GD,S450GD, S550GD	DC51D~DC53D, S250GD,S280GD, S300GD,S350GD, S550GD	DC51D~DC54D, S250GD,S280GD, S300GD,S350GD, S420GD,S450GD, S550GD	DC51D~DC52D, S250GD,S280GD, S300GD,S350GD, S420GD,S450GD, S550GD	DC51D~DC54D, S250GD,S280GD, S300GD,S350GD, S420GD,S450GD, S550GD	TDC51D~TDC54D, TS250GD,TS280GD, TS300GD,TS350GD, TS420GD,TS450GD, TS550GD
Thickness (mm)	0.25-3.0	0.25-0.8	0.16-2.0	0.25-2.5	0.3-2.0	0.16-1.6
Width(mm)	700-1300	700-1260	700-1300	700-1300	700-1300	700-1300
ID(mm)	508/610	508/610	508/610	508/610	508/610	508/610
Coil Weight	⩽25T	⩽25T	⩽25T	⩽25T	⩽25T	⩽10T
Coating Mass	⩽600g/m²	⩽300/m²	⩽240g/m²	⩽450g/m²	⩽200g/m²	Customization

Product Type		Galvanized Plate	Al-Zn Coated Plate	Zn-Al-Mg Coated Plate		Pre-Painted Steel Plate
			Zn-Al Coated Plate	Medium-Aluminum	High-Aluminum	
Standard	National Standard	GB/T 2518	GB/T 2518	YB/T 4761	YB/T 4634	GB/T 12754
	American Standard	ASTM A653	ASTM A792	ASTM A1046	/	ASTM A755
	Japanese Standard	JIS G3302	JIS G3321	JIS G3323	JIS G3321	JIS G3312
	European Standard	EN10346	EN10327/10326	EN 10346	/	EN 10169
	Australian Standard	AS1397	AS1397	AS1397	AS1397	AS2728

PRE-PAINTED PLATE CLASSIFICATION

Conventional Pre-Painted Plate	Functional Pre-Painted Steel Plate	Special Surface Pre-Painted Plate
Polyester Pre-Painted Plate (PE)	Thermal Insulation Series	Printing Series
	Self-Cleaning Series	
Silicon Modified Polyester Pre-Painted Plate (SMP)	Animal Husbandry Series	Embossed Series
High Durability Polyester Pre-Painted Plate (HDP)	Hydrogen Peroxide Resistant Series	Wrinkled Series
	Diffuse Soft Light Series	
Special Reinforced Polyester Pre-Painted Plate (SRP)	Anti-Static Series	Suede Series
Polyurethane (PU) Pre-Painted Plate	Anti-Bacterial Series	Sculptural Print Series
	Anti-Viruses Series	
Fluorinated Ethylenevinyl Ether Pre-Painted Plate (FEVE)	Negative Ion Series	Chameleon Series
	Anti-Scratch Series	
Polyvinylidene Fluoride Pre-Painted Plate (PVDF)	Zone Coated Series	Thermal Lamination Series

01

REGULAR POLYESTER PRE-PAINTED PLATE (PE)

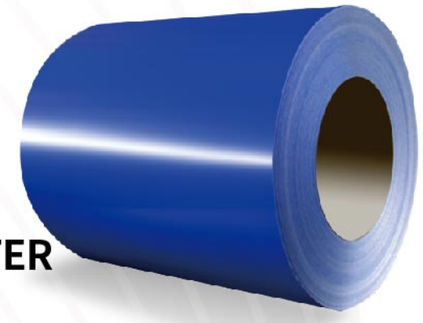
Product Advantages

- High-end polyester paint, wide color selection for market demand
- One-coat thick film application with excellent leveling and high fullness.
- Excellent hardness, machinability, corrosion and scratch resistance
- Cost-effective for general industrial usage

Product Application

- General industrial plants, storage and logistics, roofing and exterior walls
- Residential buildings, garages, supermarkets etc

02



SILICON MODIFIED POLYESTER PRE-PAINTED PLATE (SMP)

Product Advantages

- High silicon content in paint film, high hardness and good scratch resistance
- Excellent wear resistance, heat resistance and decorative properties
- Strong resistance to acid, alkali and chemical
- Excellent resistance to chalking and high gloss retention of the paint

Product Application

- Applications in internal and external enclosure system for industrial buildings, public buildings, etc.
- Buildings in areas with severe sandstorms or mining industries

03

HIGH DURABILITY POLYESTER PRE-PAINTED PLATE (HDP)

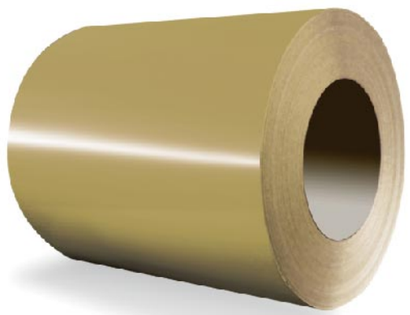
Product Advantages

- Good UV aging resistance
- Excellent color retention, gloss retention and weather resistance
- Good resistance to acids, alkalis and chemical
- Excellent mechanical properties

Product Application

- Industrial plants, convention centers, stadiums, commercial and cultural buildings with requirements of weather resistance
- High-end residential buildings, garages, shopping malls and other buildings

04



SPECIAL REINFORCED POLYESTER PRE-PAINTED PLATE (SRP)

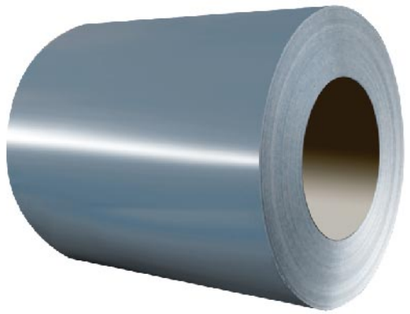
Product Advantages

- Upgraded version of HDP
- Inorganic ceramic pigments for enhanced degradation resistance
- Properties of anti-fading and anti-powdering are closed to PVDF paint

Product Application

- Widely used in airports, high-speed railway stations and large transportation hubs, stadiums, large conference halls, plants and other architectural construction required high color durability

05



POLYURETHANE (PU) PRE-PAINTED PLATE

Product Advantages

- High-build polyurethane topcoat application
- Enhanced UV resistance with superior weatherability, anti-fading and anti-chalking performance.
- Outstanding abrasion resistance and mechanical processability
- Free of heavy metal stabilizers and plasticizers, eco-friendly and sustainable

Product Advantages

- Outdoor architectural decoration, industrial plant and other fields

06

FLUORINATED ETHYLENEVINYL ETHER PRE-PAINTED PLATE (FEVE)

Product Advantages

- Vibrant colors with wide gloss options
- Good resistance of weather, salt spray, chemical and pollution

Product Application

- Roofing and wall panels for industrial, rural, suburban and commercial buildings.
- Roofing and wall panels for ordinary landmark buildings

07

POLYVINYLIDENE FLUORIDE PRE-PAINTED PLATE (PVDF)

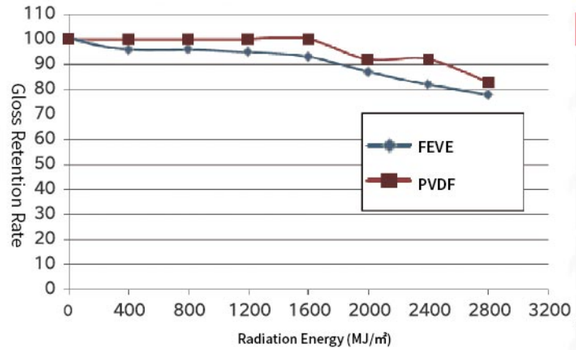
Product Advantages

- Paint contains 70% PVDF resin for optimal performance
- Exceptional UV resistance and weather resistance, Outstanding fade resistance and chalk resistance
- Excellent resistance to acid, alkali and organic solvent

Product Application

- Roofing and wall panels for harsh climate conditions
- Panels for the exterior enclosure system of large landmark buildings
- Hospitals, electronics factories, laboratories and various durable protective panels

Performance Comparison



Samples outdoor exposed to sunlight (Source: Excerpt from the ASM Manual of DSET Laboratory Test Data in the United States, Lane 5B-Protective Organic Coatings)

PRODUCT	PVDF	FEVE
Gloss and Color Retention	★★★★★	★★★★
Chalking Resistance	★★★★★	★★★★
Vibrant Colors	★★★★	★★★★★
T-bend Performance	★★★★★	★★★★
Surface Hardness	★★★★	★★★★★

Note: Rating 1-5 are for reference only.
Please select materials according to the actual application requirements.

08

THERMAL INSULATION SERIES

To save energy, reduce the costs associate with prolonged indoor air conditioning use, and minimize environmental pollution, Xinyu has developed thermal insulation panels. These panels utilize cool roof insulation materials with high reflectivity, enhancing the coating' s ability to reflect sunlight energy such as infrared rays. This improves the solar reflectance of roofs and ceilings, reducing the absorption of solar heat. Not only does this achieve the goals of lowering indoor temperatures, conserving energy, and reducing energy consumption costs, but it also helps alleviate the urban heat island effect.

Thermal Insulation Experiment

Experimental Equipment: 150w outdoor special spotlight
Indoor Initial Temperature : 25-30℃
Experimental Time : 30 minutes

Experimental Results

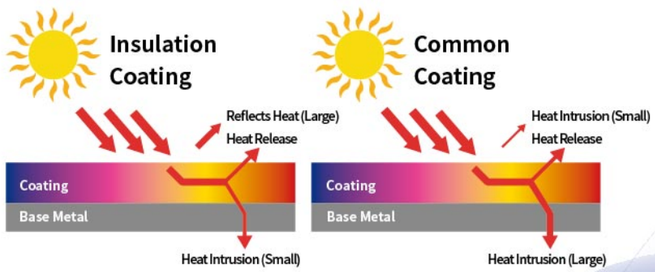
Grey Series	Ordinary Plate	Thermal Insulation Plate
Back Steel Plate Temperature(℃)	80℃	75℃
Internal Space Temperature(℃)	55℃	51℃

Green Series	Ordinary Plate	Thermal Insulation Plate
Back Steel Plate Temperature(℃)	83℃	78℃
Internal Space Temperature(℃)	58℃	53℃

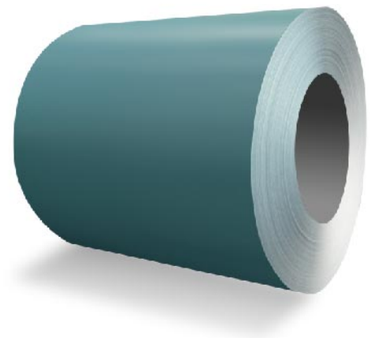
Product Application

- Metal exterior panels for buildings in hot areas such as tropical and subtropical regions
- Factories with energy-saving demands

Thermal Insulation and Energy Saving Function Diagram



09



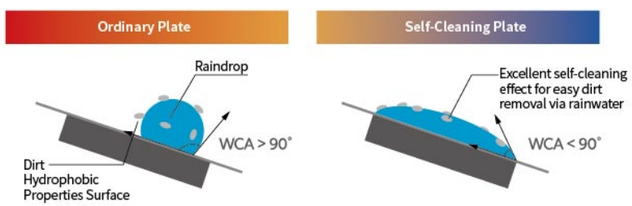
SELF-CLEANING SERIES

Self-Cleaning Plates feature a unique self-cleaning coating system with hydrophilic self-cleaning function. Utilizing nature rainfall to wash away pollutants like dust, these plate maintain conventional performance while keeping buildings clean and fresh-looking over time.

Product Application

- Exterior panels for high-end industrial plants, convention centers, stadiums and other buildings
- Exterior panels for upscale residential buildings, shopping malls and other structures.

Hydrophilicity Test



Hydrophilic Property Surface

Small WCA-better Hydrophobic Properties-Better Self-Cleaning Effect

Self-Cleaning Experiment

The experiment lasted for 6 months

Ordinary Plate	Self-Cleaning Plate

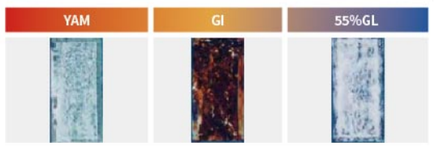
Performance Test

Test Items	Experimental Results
Carbon Black Resistance Test	Chromatic Aberration: △E≤ 1.0
Contact Angle Test	≤ 60°

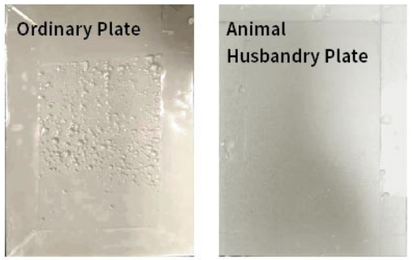
ANIMAL HUSBANDRY SERIES

Developed specifically for livestock breeding environments, ensuring long-term durability for structures such as pig houses, cattle sheds.

Salt Spray Corrosion Resistance Test (2500 hours)

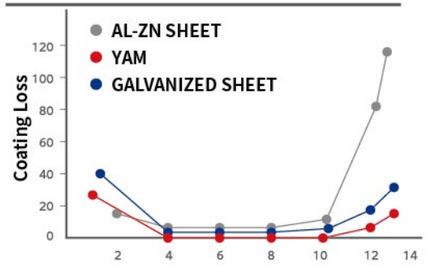


Chemical Corrosion Resistance Test



Immersion in 10% ammonia solution for 500 hours Ordinary paint blisters severely and no change to paint on animal husbandry Plate

Acid and Alkali Resistance Test



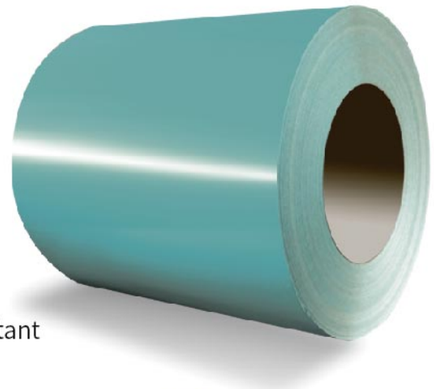
Typical PH value in livestock buildings range from 9-14, depending on design, ventilation, cleaning and other factors

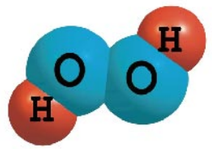
Product Advantage

- Utilizes advanced corrosion resistant galvanized aluminum - magnesium alloy substrate, offering excellent resistance to corrosion and chemicals
- The surface coating is designed for the livestock industry, with excellent chemical resistance, ammonia, common acid and alkali, strong oxidizing detergent, disinfectant, and extraordinary heat and humidity resistance, suitable for high temperature and humidity livestock environment

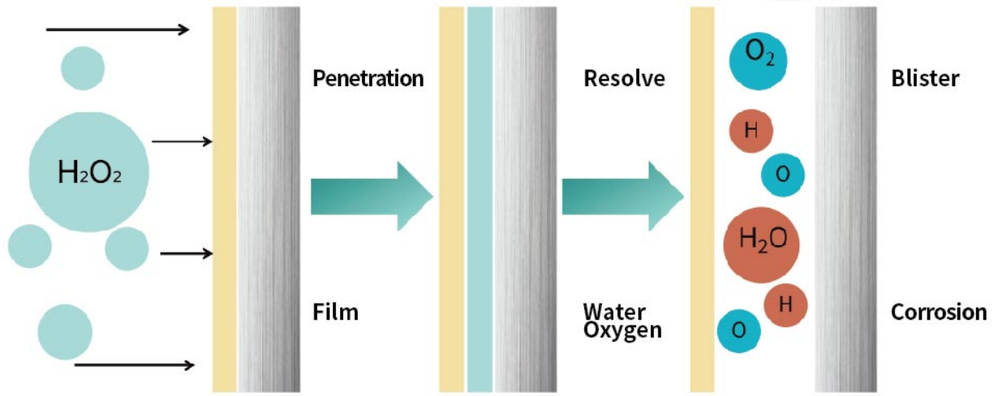
HYDROGEN PEROXIDE RESISTANT SERIES

Improved coating formulation enhances film density and heat/humidity resistance, increasing resistance to penetration by hydrogen peroxide and other common disinfectants





Hydrogen Peroxide
Strong Oxidizing Disinfectant



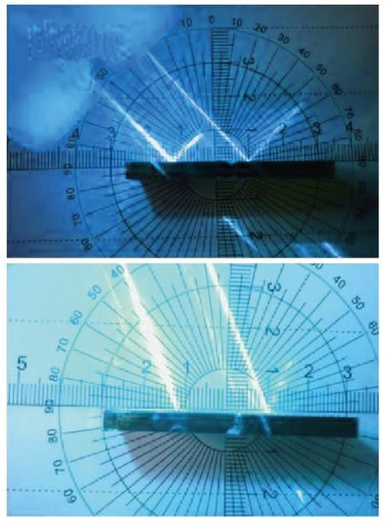
Product Application

- Plate in clean area of pharmaceutical and food processing workshop
- Panels for hospitals environments requiring frequent disinfection

12

DIFFUSE SOFT LIGHT SERIES

Diffuse Reflection Comparison Experiment



Mirror Reflection

High reflection intensity at specific angles

Diffuse Reflection

Viewed from different angles, the reflection is soft and diffuse

60x

Surface Magnification

- Diffuse Reflection Light
- High Reflectivity
- Low Gloss
- Energy Saving

Using diffuse technology, these panels feature low gloss, high reflectivity and diffuse reflection, which can play an important role in strong lighting efficiency, glare reduction, energy saving and carbon emission reduction. The use of diffuse Plate inside building can achieve good lighting energy saving effect.

Product Applications

- Inner panels for large public buildings, industrial facilities and residential green building projects

13

ANTI-STATIC SERIES

Performance Testing

Impedance test (GB/T 1410-2006):Paint surface impedance

To prevent electrostatic hazards, Xinyu has developed anti-static panels that effectively eliminate static electricity, minimizing risks and safety concerns. The panels incorporate special conductive materials into the non-conductive paint coating, transforming it into a semi-conductive layer. When installed with proper grounding, the panels safely discharge static electricity generated by air convection or friction (eg., from clothing), eliminating potential dangers.

Product Application

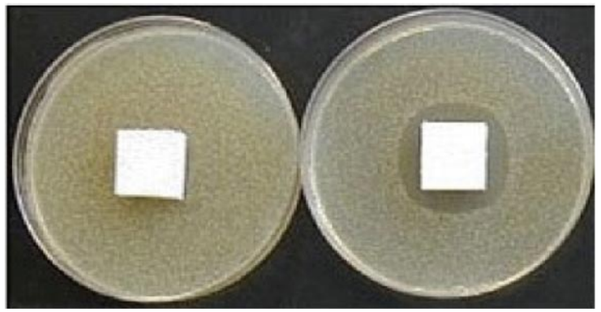
- High-end architecture interiors: sandwich panels, purification Plate
- Electronics, electrical, chemical and printing facilities with anti-static requirements
- Computer room and server room

14

ANTIBACTERIAL SERIES

Antibacterial Experiment

Standard
According to JIS Z2801:2000



Test of Antibacterial Effect

Bacteria	Inoculation Concentration	Sample	0 hours	24 hours	Antibacterial Activity Index
			Bacterial amount obtained in different hours		
Staphylococcus aureus	4.8×10^5	Antibacterial Plate Conventional Plate	1.9×10^5	2.0×10^2 7.6×10^2	3.58
Escherichia coli	5.5×10^5	Antibacterial Plate Conventional Plate	2.8×10^5	1.6×10^2 7.0×10^2	3.64
P. Aeruginosa	1.5×10^5	Antibacterial Plate Conventional Plate	1.0×10^5	1.3×10^2 3.5×10^2	3.43

Note: An antibacterial activity value ⩾2.0 confirms effective antibacterial performance

Bacteria are omnipresent in daily life. Xinyu' s antibacterial panels leverage advanced antibacterial technology, integrating antibacterial agents into the coating to effectively inhibit the growth of bacteria and maintain a hygienic environment.

Product Advantage

- Innovative antibacterial formula protects the steel surface from bacterial contamination
- Resists scrubbing and long-term use without losing efficacy
- Excellent stain resistance, safe and eco-friendly
- Effectively inhibit common pathogens (eg., Staphylococcus aureus, Escherichia coli and Pseudomonas aeruginosa)

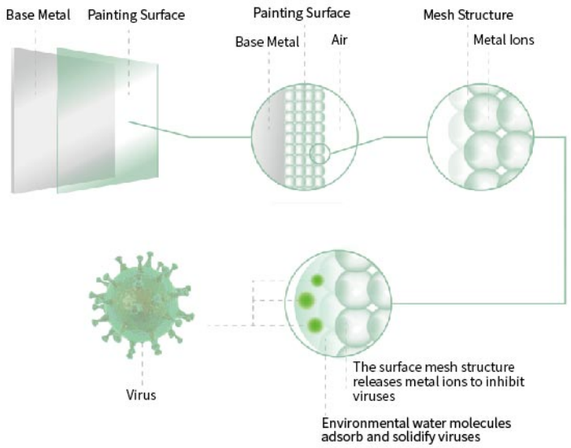
Product Usage

- Food production,storage workshop
- Freezing warehouse, logistics warehouse
- Pharmaceutical R&D production, and storage workshop
- Hospital interior decoration

15

RESIST VIRUSES SERIES

Antiviral Mechanism



Building upon antimicrobial and mold-resistant technology, this upgraded coating forms a tight mesh structure on the surface that continuously release metal ions. These ions disrupt the protein layers of attached viruses, rendering them inactive and inhibiting viral spread .

Product Advantage

- Mesh surface: effectively promote metal ion actively on the steel Plate surface
- Long-lasting function: Retains antiviral efficacy despite cleaning or prolonged use
- Stain resistance effect: easy to clean, avoid excessive use of cleaning agents to cause corrosion
- Flat board surface: High flatness for optimal purification effects

Product Usage

- Food, pharmaceutical and medical and other industry interior panels
- High-traffic public buildings and functional buildings with hygiene demands

16

NEGATIVE ION SERIES

Using air ionization technology, incorporates catalysts, stabilizers and other substances to bond oxygen molecules with electrons, generating negative oxygen ions that enhance indoor air quality.

Product Advantages

- Air Purification: Promotes dust particle settlement,reducing airborne particulates
- Health Benefits: negative ions improve metabolic and respiratory functions
- Safe & Efficient: continuous release without harming environment or humans
- Long-lasting effect: Unaffected by cleaning or long-term use.

Product Application

- Schools, hospitals, health care centers, large exhibition halls, electronic and electrical factories and other buildings with high air quality requirements
- Raw material for sandwich purification panels

17

ANTI-SCRATCH SERIES

The Anti-Scratch Pre-Painted Plates adopts a professional coating treatment process, forming scratch resistant particles on the coating surface, significantly improving the surface hardness of the coating, endowing the product with excellent wear resistance, effectively resisting scratches, impacts and other damages generated during construction and daily use, and thus maintaining the intact and excellent appearance of the board surface for a long time.

Anti-Scratch Test

Regular Plate

Under the same external force

Comparison of Plate Surface Conditions

Anti-Scratch Plate

Product Advantages

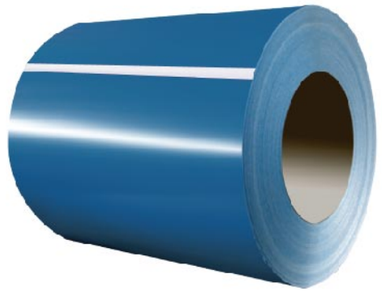
- High surface hardness and excellent scratch resistance
- Superior wear resistance, reducing surface wear marks
- Good acid, alkali, and chemical resistance
- Good outdoor durability

Product Application

- Application of internal and external enclosure systems in industrial buildings, public buildings, etc.
- Fields with high requirements for scratch resistance and wear resistance

18

ZONE COATED SERIES



Xinyu Zone Coated Pre-Painted Steel Plates utilizes zoned coating technology to precisely control the coating application area and process parameters, accurately reserving welding zones on the steel surface, this breakthrough overcomes the limitations of traditional fully coated Plates, offering not only excellent performance and process compatibility but also a unique visual appeal.

SCHEMATIC DIAGRAM OF ZONE COATING

Vertical Zone Coating

Horizontal Zone Coating

Product Advantages

- Precise coating range and dimensions
- Outstanding weather and corrosion resistance
- Excellent welding and processing performance
- Unique and textured appearance

Product Application

- High-end building roofs, walls and decorative fields with personalized design requirements.

19

PRINTING SERIES

Product Features

- Surface features exquisite printed patterns with strong applicability and decorative properties
- Bright colors and diverse patterns, such as marble, camouflage, wood grain and other printed patterns
- Excellent anti-fading, anti-aging, anti-corrosion properties

Recommended Usage

- High-end architectural panels
- Decoration industry, home appliances industry, furniture, office supplies and conventional industrial applications

20

EMBOSSED SERIES

Product Features

- Adopting unique steel plates forming technology
- Personalized concave convex patterns with outstanding three-dimensional texture
- Anti-corrosion performance as ordinary pre-painted plates

Recommended Usage

- Indoor decorative Plates
- Home appliance fields such as refrigerator panel and side panels

21

CHAMELEON SERIES

Product Features

- Brilliant iridescent coating, presenting different colors from different angles
- By changing the color of the middle coating, an infinite illusion effect can be created

Recommended Usage

- Exterior and interior decoration of buildings
- Decoration of advertising background wall, household appliance panel

22

WRINKLED SERIES

Product Features

- Three-dimensional appearance with a premium texture
- High cross-link density in the coating surface, low gloss and good scratch resistance
- Good weather resistance, acid and alkali resistance, chemical resistance
- More natural-looking compared to standard pre-painted plates

Recommended Usage

- Civil construction, villas and antique-style color steel tiles

23

SUEDE SERIES

Product Features

- Relatively soft color
- Fluff-similar texture

Recommended Usage

- Suitable for occasions that require a softer hand feel and comfort

24

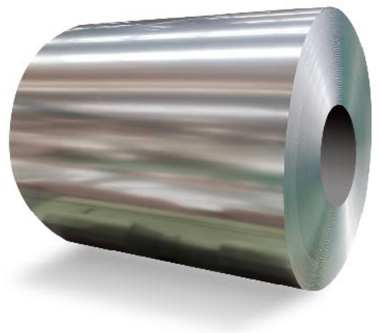
THERMAL LAMINATION SERIES

Product Features

- Energy saving and environmentally friendly, easy to form
- Vibrant colors and rich floral patterns
- Good weather resistance
- Excellent corrosion resistance

Recommended Usage

- Mainly used in the decoration fields of home appliances, construction, decoration, transportation facilities, pharmaceutical industry, etc



MEDIUM ALUMINUM ZN-AL-MG PLATE

Xinyu Medium Aluminum Zn-Al-Mg Plate is formed by high-temperature solidification of zinc, aluminum and magnesium, creating a dense ternary eutectic structure (Zn-Al-$MgZn_2$). This structure forms a protective barrier against corrosive agents, providing superior chemical and red rust resistance、self-healing corrosion protection at cut edges、excellent weldability and workability, extended building lifespan.

Product Advantages

- Excellent corrosion and alkali resistance
- Self-repairing protective layer at cut edges
- Good processing performance, excellent wear and abrasion resistance

25

ZN-AL-MG COATED PLATE

Xinyu Zinc- Aluminum- Magnesium coated Plates has excellent corrosion resistance. Based on the aluminum content in the coating, they are categorized into medium aluminum zn-al-mg plate and high aluminum al-zn-mg plate.

HIGH ALUMINUM AL-ZN-MG PLATE

Xinyu High Aluminum Al-Zn-Mg Plate is an upgraded version based on the 55% aluminum-zinc-silicon alloy-coated steel. This high aluminum Al-Zn-Mg Plate features an optimized coating composition that retains traditional elements like aluminum, zinc, and silicon while incorporating an additional 2% magnesium in a perfect ratio. The addition of magnesium enhances the reactivity of the alloy coating. Through elemental synergy the formed $MgZn_2$ creates a barrier protective layer at the cut edges and cross-sections, while the generated Mg_2Si further strengthens the isolation protection, resulting in a synergistic 1+1>2 effect,. this dual mechanism provides the product with a tough corrosion resistance "shield", simultaneously enhancing the hardness and damage resistance performance of the Plate.

Product Advantages

- Excellent corrosion resistance with superior acid resistance and excellent corrosion resistance on flat surfaces
- Outstanding machinability and wear resistance performance

26

AL-ZN COATED PLATE

Xinyu AL-ZN Coated Steel Plate uses aluminum, zinc, and silicon as the main elements, and adds trace elements to solidify at 600℃ to form a highly corrosion-resistant and dense 55% aluminum-zinc-silicon alloy steel plate.The fine spangle surface ensures uniform protection, widely used in a number of industrial fields, such as architecture panels (indoor/outdoor), electrical appliances, auto parts &pipelines and other industries.

Product Advantages

- Superior corrosion resistance, can be used in a variety of corrosive environment, long service life
- Excellent ductility, under the same weight and coating thickness, 3% + larger expansion area vs. galvanized Plate
- Good thermal reflectivity, its ability to reflect heat and light is twice that of galvanized Plate, the reflectivity is greater than 0.75, is an ideal building energy-saving and heat-insulating material.(2time better than galvanized Plate, reflectivity＞0.75)

27

ZN-AL COATED PLATE

Zn-Al Coated Plate is produced using cold-rolled steel plate as the substrate, and 5% aluminum and rare earth elements are added to zinc liquid through special processes to create a high-performance zinc aluminum alloy coating. It has excellent anti-corrosion and weather resistance, as well as excellent formability. It is not only widely used in building walls, roofs and other enclosure scenarios, but also suitable for automotive, home appliances, industrial equipment accessories and other fields.

Product Advantages

- Excellent formability
- Good corrosion resistance and weather resistance
- Excellent welding performance
- The cutting edge has strong corrosion resistance, which is superior to al-zn coated steel plate

28

GALVANIZED PLATE

Xinyu Galvanized Plate is a product obtained by immersing the cold rolled plate in molten zinc liquid after electrolytic cleaning and annealing by continuous hot-dip galvanizing unit, and then going through the corresponding processes such as skin-pass, tension leveling and passivation, which has excellent corrosion resistance. The products are widely used in construction, home appliances and automotive industries.

29

COLD ROLLED PLATE

Xinyu Cold Rolled Plate is a product made by selecting high-quality hot-rolled steel coils from large domestic steel mills as raw materials, acid washing to remove iron oxide scale, and rolling deformation on a cold rolling mill. Xinyu cold-rolled plate has precise thickness, high surface quality flatness, and excellent mechanical and processing properties. The product is widely used in industries such as construction, automotive, home appliances, and transportation.

QUALITY ASSURANCE

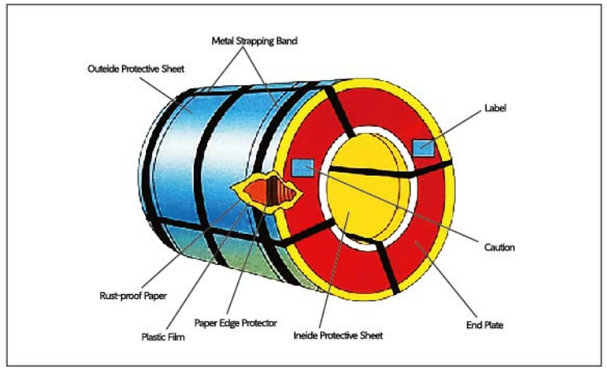
Equipped with world-class laboratory equipment and strict testing mechanisms to ensure stable and superior product performance. In 2021, the company integrated its testing resources and established a testing center to support quality control and R&D. The key testing facilities including Chemical Analysis Lab, Performance Analysis Lab, Material Aging Lab, Corrosion Resistance Lab, Elemental Analysis Lab, and Outdoor Exposure Test Sites. The chemical analysis lab equipped with moisture analyzer, conductivity meter, PH meter, and automatic potentiometric titrator,etc.

The Performance Analysis Laboratory primarily conducts product performance, appearance, and microscopic testing. Equipped with metal tensile testing machine, digital Rockwell hardness tester, T-bend tester, colorimeter, and metallographic microscope, which can meet the needs of strength, hardness, bending, color difference, and metallographic analysis. Material Aging & Corrosion Resistance Research labs simulate natural environmental conditions such as light exposure, rain, and humidity, used to test corrosion and aging resistance.

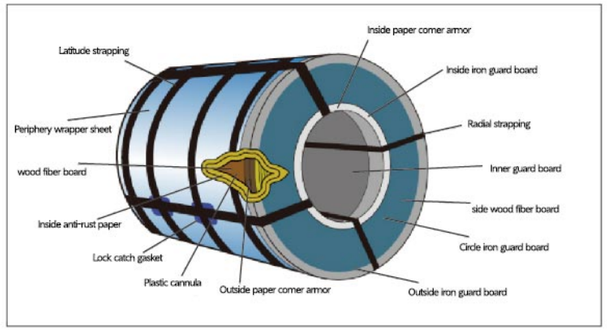
Equipped with neutral salt spray test chamber, high and low temperature alternating humidity and heat test chamber, xenon lamp aging test chamber, and UV light aging test chamber. The primary subjects of inspection are galvanized aluminum-zinc coated steel Plates and strips, as well as colored coated steel Plates. The element testing lab is responsible for testing the elemental composition of hot-rolled steel , zinc ingots, etc. The testing equipment includes spark optical emission spectrometer and portable optical emission spectrometer for zinc ,iron and aluminum based elements. Outdoor exposure test sites located across multiple provinces and cities in China to provide real-world performance under different climate conditions.

PACKAGE

Domestic Package



Exporting Package



Domestic Package

Package	Wooden Pallets	Protective Film	Sleeve	Applicable Products
Vertical Package	Required	Optional	Iron Sleeve	Products with protective film
			Carton Sleeve	All Ordinary Products
Horizontal Package	Optional	Optional	Iron Sleeve	Products with protective film
			Carton Sleeve	All Ordinary Products

Exporting Package

Package	Wooden Pallets	Protective Film	Sleeve	Applicable Products	Stacking Layers
Vertical package	Required	Optional	Iron Sleeve	Products with protective film Wrinkled Pre-Painted steel products Cold Rolled full hard products below 0.50 thickness, all products below 0.30 thickness	⩽2 Layers
			Carton Sleeve	All Ordinary Products	
Horizontal package	Optional	Optional	Iron Sleeve	Products with protective film Wrinkled Pre-Painted steel products Cold Rolled full hard products below 0.50 thickness, all products below 0.30 thickness	⩽3 Layers
			Carton Sleeve	All Ordinary Products	