

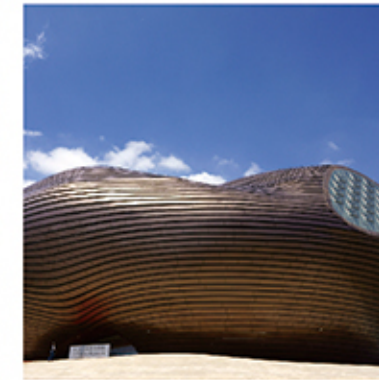


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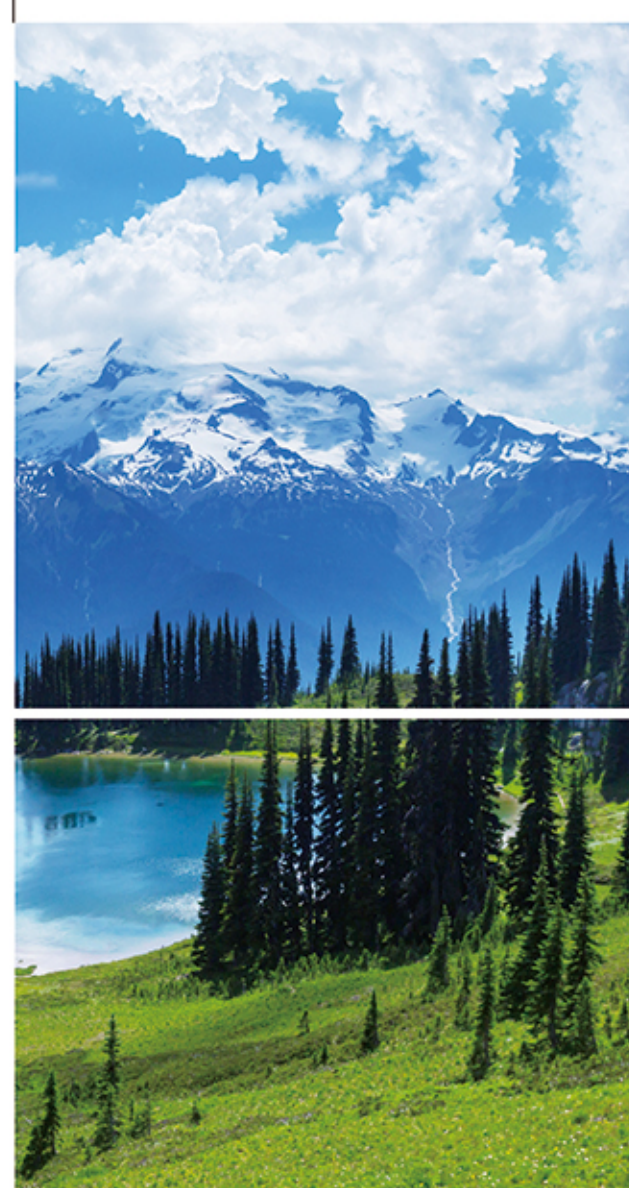




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## PRODUCT CATALOGUES

TOEASY

Company Profile .....	01
Toeasy Technology .....	03
Interior Powder Coatings :	
Epoxy Powder Coating .....	05
Epoxy/Polyester(hybrid)powder Coating .....	07
Exterior Powder Coatings :	
Polyester/TGIC(hybrid)powder Coating .....	09
Polyester/HAA(hybrid)powder Coating .....	11
Polyurethane Powder Coating(Climate Resistance) .....	13
Acrylic Acid Powder Coating(Climate Resistance) .....	15
Construction Powder Coatings :	
Polyester Powder Coating .....	17
FEVE Fluoroesin Powder Coating .....	19
FEVE Thermosetting Fluorocarbon Coating .....	21
Functional Powder Coatings :	
Mdf&Wood Powder Coating .....	23
Art Texture Powder Coating .....	24
Metallic Powder Coating .....	25
Transparent Powder Coating .....	26
Auto Mobile Wheel Hubs Primer Powder .....	27
Pipeline Powder Coating .....	28
Magnet Wires Powder Coating .....	28
Reinforcing Steel Powder Coating .....	28
Electricing Steel Powder Coating .....	29
Low Temper Curing Powder Coating .....	29
Anti-bacterial Powder Coating .....	29
Ultre-thin Powder Coating .....	29
Fire-retardant Powder Coating .....	30
Conduction Powder Coating .....	30
Heat Resistance Powder Coating .....	30
Thermal Transfer Printing Powder Coating .....	30
Quality After-sales Services .....	31





## COMPANY PROFILE

Toeasy Technology company is a professional company engaged in the integration of research, production, sales and technology service of powder coating, the company has passed ISO9001:2008 International Quality Management System Certification, ISO14001 Environmental Management System Certification, GB/T28001 Occupational Health and Safety Management System Certification, and it is a member of Qualisino, "a professional committee member unit majored in powder coating in Chinese Chemical Society", Guangdong Nonferrous Metals Society Aluminium Processing Specialized Committee Member Unit" and "Guangdong Province Abibe Contract and Credit Enterprise".

The company has 25 advanced production lines, strong technical force, high-quality management talent, scientific and perfect management system. It can provide the qualified product and service according to the requirements of different consumers. At present, the company has formed the annual capacity of 20,000 tons and good production environment, and it sets the companies at Shandong(Shandong Toeasy Powder Technology Co., Ltd.) and Guangdong(Foshan Toeasy Decorative Materials Technology Co., Ltd. and Headquarters of Guangdong Toeasy Technology Co., Ltd.).

The company has been developing the technical cooperation with domestic famous universities and research institutes for a long time, and continuously researched all kinds of high environmental(non-toxic, harmless, low carbon), high performance(weather resistance, chemical resistance, impact resistance), and high decorative(color, luster, texture) powder coatings, such as the antibacterial powder, heat transfer powder, 3D wood grain powder, solid wood powder, high-temperature resistant powder(350℃-400℃), outdoor super weather-resist powder, ultrafine coated powder, fluorocarbon powder, pipeline anti-corrosion powder, electronic insulation powder, rebar anti-corrosion powder, MDF powder.

The company product is mainly used in the industries of building material, household appliance, metal furniture, oil pipeline, electrical engineering, hardware and auto parts.

The mission of the company is technical innovation, people-oriented, integrity supreme and creating the brilliancy together.

We have been working, and we have been making progress, Toeasy people are willing to work with you to creat a better future.



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## CERTIFICATES, PATENTS AND HORERS



Toeasy Powder company currently has the independent and excellent research and development team within the industry, and develops the technical cooperation and product innovation with domestic famous colleges and research institutes. In order to improve the reliability and innovation of Toeasy Powder, it establishes the long-term strategic cooperation relationship with the global famous raw material suppliers to provide the powder coating with high performance for the consumers.

With unremitting efforts, the enterprise has steadily developed as a powder coating manufacturing enterprise with considerable size. With annual production capacity of up to 20,000 tons, the enterprise not only has advanced technology, crafts, and many modern production lines in the field of powder coating, but also has a group of high professional level science-tech team with high and international top coating experts. The implementing of experimental equipment and quality inspection devices from Switzerland, Germany, Britain and the United States has guarantee a good facility for the enterprise's production of top quality products.

We all know the truth that "Good products are made by people" and by adopting the most advanced production processes, applying the high technical system, selecting high-quality raw material at home and abroad, and establishing cooperative relationship with lots of international well-known raw material suppliers, such as Netherlands DSM, Belgium UCB, Dow, Switzerland Ciba, Germany Clariant, the enterprise has always been ahead of the domestic powder coating industry.

Toeasy Powder is dedicated to control the quality of the purchased raw material, ensure the high quality of the source, improve the coating surface, coating saturation and gloss, improve the coating leveling, and reduce the unit-area-consumption of powder through thin-coating-technology, and the unit coating area can increase 10%-30%. With the analysis and research on different basic materials, the powder grain size can be adjusted to improve the one-time-adhesive powder rate, reduce the loss and increase the production efficiency.



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ENTERPRISE RESEARCH AND DEVELOPMENT



## 01 产品概述 Product overview

Epoxy Powder Coating can be divided into 3 categories: decoration type, corrosion resistance type and electrical insulation type.

## 02 应用领域 Application field

Metal which has high corrosion resistance requirement, flexibility and electrical insulation: I.E: oil and gas pipelines, ship facilities, reinforcing steel valves, inner wall of sewers, chemistry equipments, shell of electronic devices, rotors, insulation Copper Aluminum platoons wires and etc.

## 03 产品特征 Product characteristics

Good adhesion between coating and substrate. Excellent at anti-scratch, anti-bend, anti-impact and anti-chemical. Wide range of temperature usage: the film doesn't lose its characteristics under usage of temperature ranges from -30° to 110°. This product is not suitable for painting exterior products directly.

## 04 基本性能 Basic performance

**S.G.:** 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).  
**Particle Size:** varies with different purposes, the average particle size is 30-50µm.  
**Storage:** The products must be stored in a dry room with temperature below 25°C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 6 months. Expired product couldn't be used until test result meets the utilization standards.  
**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70µm (100%utilization rate). Practical coating zone varies with shapes of coating equipments and objects.  
**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

## 05 涂膜效果 Effect of coating

There are many surface effects for this product. Customers can chose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).

## 06 维护及保养 Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

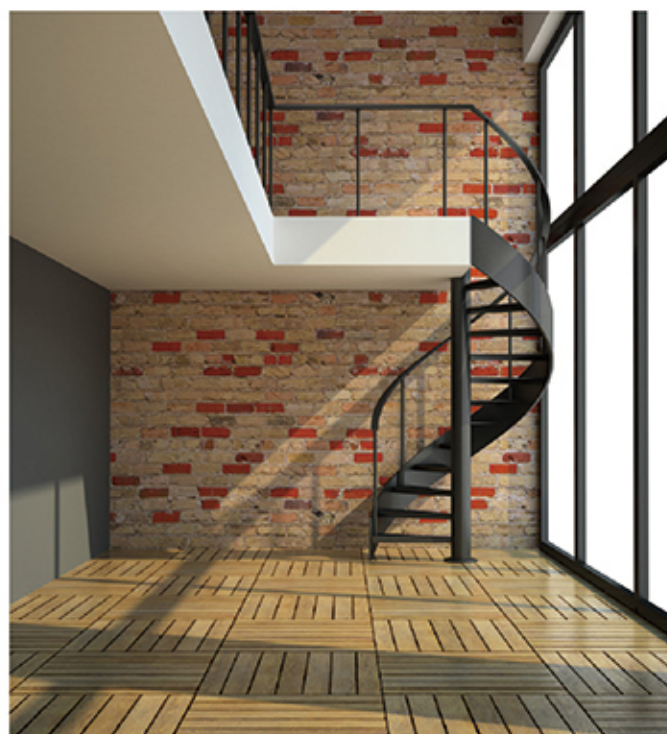
- 1、Wipe the surface with wet cotton cloth to avoid scratches.
- 2、Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
- 3、Wipe out the residual detergent when cleaning.

## 07 施工条件 Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(°C)	Time(Minutes)
Curing Conditions Recommendations	180	15
According to Requirements	200	10
	160	20
	140	25
Film Thickness	Range	40-100µm

**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)



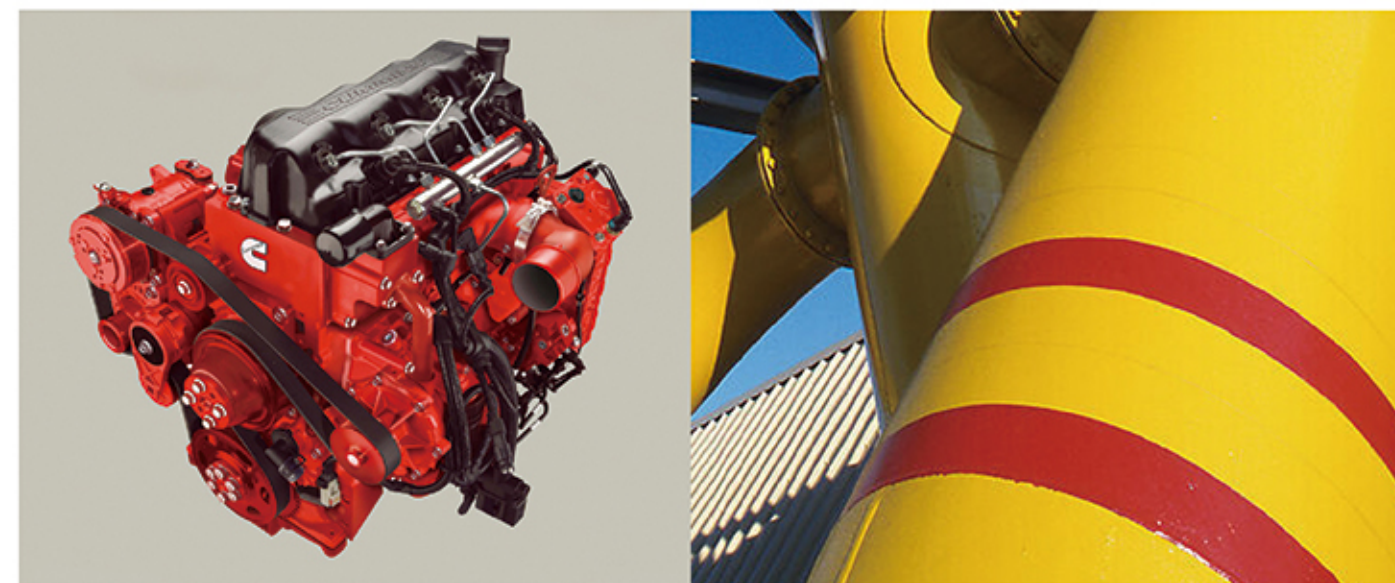
## 08 卫生及安全 Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.

## 09 涂膜性能 Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Textures
Film thickness	GB/T1964-89 ISO 2360	60-80µm	60-80µm	60-120µm
Glossiness 60°	GB/T9754-88 ISO 2813	80-98%	2-65%	2-70%
Cross Cut Adhesion Test	GB/T9286-98 ISO 2409	Level 0	Level 0	Level 1
Mandrel Bending Test	GB/T6742-86 ISO 1519	2mm	3mm	6mm
Erichsen Cupping	GB/T9753-88 ISO 1520	7mm	6mm	5mm
Impact Test	GB/T1732-93 ASTM D2794	50KG Psaa	50KG Psaa	40KG Psaa
Pencil Hardness	GB/T6739-96 ASTM D3363	2H	3H	4H
Hest-Humidity Resistance for 800h	GB/T1740-79 ISO 6270-1	No blistering, no flaking no rust	No blistering, no flaking no rust	No blistering, no flaking no rust
Salt Spray Resistance for 1000h	GB/T1771-91 ISO 9227	Lined: unilateral corrosions 2mm	Lined: unilateral corrosions 2mm	Lined: unilateral corrosions 2mm
Acid Resistance 5%H <sub>2</sub> SO <sub>4</sub> , 5%HCL, 5%H <sub>3</sub> PO <sub>4</sub> , 5%HAC		Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months
Alkali Resistance 5%NaOH, 5%NaCO <sub>3</sub>		Discoloration and no blistering for 800h	Discoloration and no blistering for 800h	Discoloration and no blistering for 800h
Solvent Resistance Acetone, Xylene, Gas Oil, Alcohol, Butanone		No colour change or softening after wiping up to 50 times	No colour change or softening after wiping up to 50 times	No colour change or softening after wiping up to 50 times

Notification is required when there is a need to have the coating more than 150 µm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





## [COATING THAT IS MOST WIDELY USED IN INTERIOR]

### 01 产品概述\Product overview

This product allows the special properties of epoxy powder coating and polyester powder coating respectively at the same time, with good chemical physical and decorative properties. The film has excellent leveling and glossiness that it is suitable for the coating of indoor decorative products.

### 02 应用领域\Application field

Widely used in various kinds of indoor metallic products: furniture, household electric appliance, radiator, indoor decoration, ceiling, fitness equipment, industrial equipment, toys, logistics shelves, car parts, metallic parts of the interior of the trains, the shells of lights and electronic device. This product is not suitable for coating and finish of exterior products directly.

### 03 产品特征\Product characteristics

Good adhesion between coating and substrate. The film has excellent mechanical and colour-matching properties so that it is suitable for mixing different kinds of art powder coating. This product has excellent storage stability property because of excellent heat and light resistance.

### 04 基本性能\Basic performance

**S.G.:** 1.2--1.7(g/cm<sup>3</sup>) (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 35-45μm.

**Storage:** The products must be stored in a dry room with temperature below 30°C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70μm (100% utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

### 05 涂膜效果\Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).

### 06 维护及保养\Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 07 施工条件\Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(°C)	Time(Minutes)
Curing Conditions Recommendations	180	15
According to Requirements	200	10
	160	20
Film Thickness	Range	40-80μm

**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)



### 08 卫生及安全\Health and safety

There are no toxic ingredients in all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.

### 09 涂膜性能\Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Textures
Film thickness	GB/T1964-89 ISO 2360	60-80μm	60-80μm	60-120μm
Glossiness 60°	GB/T9754-88 ISO 2813	80-98%	5-65%	5-70%
Cross Cut Adhesion Test	GB/T9286-98 ISO 2409	Level 0	Level 0	Level 1
Mandrel Bending Test	GB/T6742-86 ISO 1519	2mm	3mm	6mm
Erichsen Cupping	GB/T9753-88 ISO 1520	7mm	6mm	5mm
Impact Test	GB/T1732-93 ASTM D2794	50KG Psaa	50KG Psaa	40KG Psaa
Pencil Hardness	GB/T6739-96 ASTM D3363	2H	3H	4H
Heat-Humidity Resistance for 800h	GB/T1740-79 ISO 6270-1	No blistering, no flaking, no rust	No blistering, no flaking, no rust	No blistering, no flaking, no rust
Salt Spray Resistance for 1000h	GB/T1771-91 ISO 9227	Lined: unilateral corrosion ≤ 2mm	Lined: unilateral corrosion ≤ 2mm	Lined: unilateral corrosion ≤ 2mm
Acid Resistance 5%H <sub>2</sub> SO <sub>4</sub> , 5%HCL, 5%H <sub>3</sub> PO <sub>4</sub> , 5%HAC		Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months	Discoloration and no blistering for 8 months
Alkali Resistance 5%NaOH, 5%Na <sub>2</sub> CO <sub>3</sub>		Discoloration and no blistering for 600h	Discoloration and no blistering for 600h	Discoloration and no blistering for 800h
Solvent Resistance Acetone, Xylene, Gas Oil, Alcohol, Butanone		No colour change or softening after wiping up to 50 times	No colour change or softening after wiping up to 60 times	No colour change or softening after wiping up to 60 times

Notification is required when there is a need to have the coating more than 120 μm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





### 01 产品概述\Product overview

Using high-quality carboxyl resin and TGIC curing agent as major raw material, Having good weather-resistance and salt-resistance properties.

### 02 应用领域\Application field

Be suitable for any of exterior metallic products:agricultural machinery,car parts,courtyard fence,fitness equipments, industrial equipments,exterior lights,exterior air-conditioning and architecture materials etc.

### 03 产品特点\Product characteristics

Good adhesion between coating and substrate.Good mechanical,heat-resistance and chemicals-resistance properties.It isn't easy to turn yellow and produce pinholes when baking.The film has fire-retardant property and extinguishing property to some extent.

### 04 基本性能\Basic performance

**S.G.:** 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40µm.

**Storage:** The products must be stored in a dry room with temperature below30℃ and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70µm (100%utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

### 05 涂膜效果\Effect of coating

There are many surface effects for this product. Customers can chose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).



### 06 维护及保养\Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

- 1、Wipe the surface with wet cotton cloth to avoid scratches.
- 2、Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
- 3、Wipe out the residual detergent when cleaning.

### 07 施工条件\Construction conditions

**Spray Guide:**This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(℃)	Time(Minutes)
Curing Conditions Recommendations	190	15
According to Requirements	200	10
	160	20
Film Thickness	Range	40-80µm

**Surface Treatment of Objects:**Choose a proper way in accordance with different metallic materials.(Please ask us for more information,if needed)

### 08 卫生及安全\Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.

### 09 涂膜性能\Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Textures
Film thickness	GB/T1964-89 ISO 2360	60-80µm	60-80µm	60-120µm
Glossiness 60%	GB/T9754-88 ISO 2813	80-98%	5-65%	5-70%
Cross Cut Adhesion Test	GB/T9286-98 ISO 2409	Level 0	Level 0	Level 1
Mandrel Bending Test	GB/T6742-86 ISO 1519	2mm	3mm	6mm
Erichsen Cupping	GB/T9753-88 ISO 1520	7mm	6mm	5mm
Impact Test	GB/T1732-93 ASTM D2794	50KG Psaa	50KG Psaa	40KG Psaa
Pencil Hardness	GB/T6739-96 ASTM D3363	2H	3H	4H
Boiling Water Resistance	GB/T1766	No obvious change,95℃/2h	No obvious change,95℃/2h	No obvious change,95℃/2h
Heat-Humidity Resustance for1000h	GB/T1865-1997	Discoloration grade,loss of gloss levels2	Discoloration grade,loss of gloss levels2	Discoloration grade,loss of gloss levels2
Hest-Humidity Resistance for1000h	GB/T1740-79 ISO 6270-1	≤Level 1	≤Level 1	≤Level 1
Salt Spray Resistance for1000h	GB/T1771-91 ISO 9227	Lined:unilateral corrosions2mm	Lined:unilateral corrosions2mm	Lined:unilateral corrosions2mm
Acid Resistance 5%H <sub>2</sub> SO <sub>4</sub> , 5%HCL, 5%H <sub>3</sub> PO <sub>4</sub> , 5%HAC		Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months	Discoloration and no blistering for 8 months
Alkali Resistance 5%NaOH,5%Na <sub>2</sub> CO <sub>3</sub>		Discoloration and no blistering for 600h	Discoloration and no blistering for 600h	Discoloration and no blistering for 600h
Solvent Resistance Acetone,Xylene, Gas Oil,Alcohol,Butanone		No colour change or softening after wiping up to 50 times	No colour change or softening after wiping up to 60 times	No colour change or softening after wiping up to 60 times

Notification is required when there is a need to have the coating more than 120 µm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





# POLYESTER/HAA(HYBRID) POWDER COATING

[FOR GENERAL EXTERIOR INTERIOR]

## 01 产品概述 Product overview

Using high quality carboxyl resin and hydroxyl alkyl amide (HAA) curing agent as major raw material, which has good climate resistance and salt spray resistance properties.

## 02 应用领域 Application field

Suitable for any of exterior metallic products: agricultural equipments, car parts, courtyard fence, fitness equipments, exterior lights, exterior air-conditionings and architecture materials etc.

## 03 产品特点 Product characteristics

Excellent adhesion between coating and substrate. Good mechanical, heat-resistance and chemicals -resistance properties. The film also has fire-retardant and extinguishing property to some extent. This product is safe, more environmental, and healthier than TGIC type. There will be pinholes if the thickness of the film is more than 100 $\mu$ m.

## 04 基本性能 Basic performance

S.G.: 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

Particle Size: varies with different purposes, the average particle size is 30-40 $\mu$ m.

Storage: The products must be stored in a dry room with temperature below 30 $^{\circ}$ C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

Utilization Rate: 8--12m<sup>2</sup>/kg film thickness 70 $\mu$ m (100% utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

Transportation: The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

## 05 涂膜效果 Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).



## 06 维护及保养 Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

Three steps of film cleaning:

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

## 07 施工条件 Construction conditions

Spray Guide: This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature( $^{\circ}$ C)	Time(Minutes)
Curing Conditions Recommendations	190	15
According to Requirements	200	10
	160	20
Film Thickness	Range	40-80 $\mu$ m

Surface Treatment of Objects: Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)

## 08 卫生及安全 Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.



## 09 涂膜性能 Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Textures
Film thickness	GB/T1964-89 ISO 2360	60-80 $\mu$ m	60-80 $\mu$ m	60-120 $\mu$ m
Glossiness 60%	GB/T9754-88 ISO 2813	80-98%	5-65%	5-70%
Cross Cut Adhesion Test	GB/T9286-98 ISO 2409	Level 0	Level 0	Level 1
Mandrel Bending Test	GB/T6742-86 ISO 1519	2mm	3mm	6mm
Erichsen Cupping	GB/T9753-88 ISO 1520	7mm	6mm	5mm
Impact Test	GB/T1732-93 ASTM D2794	50KG Psaa	50KG Psaa	40KG Psaa
Pencil Hardness	GB/T6739-96 ASTM D3363	2H	3H	4H
Boiling Water Resistance	GB/T1766	No obvious change, 95 $^{\circ}$ C/2h	No obvious change, 95 $^{\circ}$ C/2h	No obvious change, 95 $^{\circ}$ C/2h
Heat-Humidity Resistance for 500h	GB/T1865-1997	Discoloration grade, loss of gloss levels 2	Discoloration grade, loss of gloss levels 2	Discoloration grade, loss of gloss levels 2
Heat-Humidity Resistance for 800h	GB/T1740-79 ISO 6270-1	$\leq$ Level 1	$\leq$ Level 1	$\leq$ Level 1
Salt Spray Resistance for 1000h	GB/T1771-91 ISO 9227	Lined: unilateral corrosion $\leq$ 2mm	Lined: unilateral corrosion $\leq$ 2mm	Lined: unilateral corrosion $\leq$ 2mm
Acid Resistance 5%H <sub>2</sub> SO <sub>4</sub> , 5%HCL, 5%H <sub>3</sub> PO <sub>4</sub> , 5%HAC		Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months	Discoloration and no blistering for 8 months
Alkali Resistance 5%NaOH, 5%Na <sub>2</sub> CO <sub>3</sub>		Discoloration and no blistering for 600h	Discoloration and no blistering for 600h	Discoloration and no blistering for 600h
Solvent Resistance Acetone, Xylene, Gas Oil, Alcohol, Butanone		No color change or softening after wiping up to 50 times	No color change or softening after wiping up to 60 times	No color change or softening after wiping up to 60 times

Notification is required when there is a need to have the coating more than 120  $\mu$ m thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.



# POLYURETHANE POWDER COATING

## [CLIMATE RESISTANCE]

### 01 产品概述\Product overview

Using hydroxy polyester resin, fillers and pigments and auxiliary agent as raw material.

### 02 应用领域\Application field

Suitable for all kinds of exterior metallic products: agriculture machines, automobile parts, courtyard fence, fitness equipment, industrial equipment, exterior lights, exterior air-conditioning and architecture material etc. This product is safer, more environmental, and healthier than TGIC type.

### 03 产品特征\Product characteristics

Good leveling, abrasion resistance and chemicals resistance property. Excellent adhesion between the coatings and substrate. Good mechanical property and it isn't easy to turn yellow when baking.

### 04 基本性能\Basic performance

**S.G.:** 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40µm.

**Storage:** The products must be stored in a dry room with temperature below 30°C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70µm (100% utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

### 05 涂膜效果\Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).



### 06 维护及保养\Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 07 施工条件\Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(°C)	Time(Minutes)
Curing Conditions Recommendations	210	10
According to Requirements	200	15
	180	20
Film Thickness	Range	40-80µm

**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)

### 08 卫生及安全\Health and safety

There are no toxic ingredients in all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.

### 09 涂膜性能\Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Textures
Film thickness	GB/T1964-89 ISO 2360	60-80µm	60-80µm	60-120µm
Glossiness 60%	GB/T9754-88 ISO 2813	80-98%	5-65%	110%
Cross Cut Adhesion Test	GB/T9286-98 ISO 2409	Level 0	Level 0	Level 1
Mandrel Bending Test	GB/T6742-86 ISO 1519	2mm	3mm	6mm
Erichsen Cupping	GB/T9753-88 ISO 1520	7mm	6mm	5mm
Impact Test	GB/T1732-93 ASTM D2794	50KG Psaa	50KG Psaa	30KG Psaa
Pencil Hardness	GB/T6739-96 ASTM D3363	2H	3H	3H
Boiling Water Resistance	GB/T1766	No obvious change, 95°C/2h	No obvious change, 95°C/2h	No obvious change, 95°C/5h
Heat-Humidity Resistance for 1000h	GB/T1865-1997	Discoloration grade, loss of gloss levels 2	Discoloration grade, loss of gloss levels 2	Discoloration grade, loss of gloss levels 2
Heat-Humidity Resistance for 1000h	GB/T1740-79 ISO 6270-1	≤Level 1	≤Level 1	≤Level 1
Salt Spray Resistance for 1000h	GB/T1771-91 ISO 9227	Lined: unilateral corrosion ≤2mm	Lined: unilateral corrosion ≤2mm	Lined: unilateral corrosion ≤2mm
Acid Resistance 5%H <sub>2</sub> SO <sub>4</sub> , 5%HCL, 5%H <sub>3</sub> PO <sub>4</sub> , 5%HAC		Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months
Alkali Resistance 5%NaOH, 5%Na <sub>2</sub> CO <sub>3</sub>		Discoloration and no blistering for 600h	Discoloration and no blistering for 600h	Discoloration and no blistering for 600h
Solvent Resistance Acetone, Xylene, Gas Oil, Alcohol, Butanone		No colour change or softening after wiping up to 50 times	No colour change or softening after wiping up to 60 times	No colour change or softening after wiping up to 60 times

Notification is required when there is a need to have the coating more than 120 µm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





## [GLOSSY, COLOUR RETENTION, AND EXCELLENT TRANSPARENT PROPERTIES]

### 01 产品概述 Product overview

Using glycidyl acrylic acid, polybasic carboxylic acid curing agent as raw material, with good decorative and climate resistance properties.

### 02 应用领域 Application field

Suitable for objects which has high decorative property requirements: I.E: architecture materials, aluminum extrusions, automobile wheel-hub, auto sealing, motorbikes and etc.

### 03 产品特征 Product characteristics

Good adhesion between film and substrates. Primer is not necessary and good heat resistance, gloss and colour retention, as well as good contamination resistance. This product is suitable for thin film for its excellent transparent property.

### 04 基本性能 Basic performance

**S.G.:** 1.1--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40µm.

**Storage:** The products must be stored in a dry room with temperature below 30°C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70µm (100% utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.



### 05 涂膜效果 Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).

### 06 维护及保养 Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 07 施工条件 Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(°C)	Time(Minutes)
Curing Conditions Recommendations	180	15
	170	20
Film Thickness	Range	30-70µm

**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)

### 08 卫生及安全 Health and safety

There are no toxic ingredients in all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.

### 09 涂膜性能 Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Textures
Film thickness	GB/T1964-89 ISO 2360	60-80µm	60-80µm	60-120µm
Glossiness 60%	GB/T9754-88 ISO 2813	80-98%	5-65%	110%
Cross Cut Adhesion Test	GB/T9286-98 ISO 2409	Level 0	Level 0	Level 0
Mandrel Bending Test	GB/T6742-86 ISO 1519	2mm	3mm	2mm
Erichsen Cupping	GB/T9753-88 ISO 1520	7mm	6mm	8mm
Impact Test	GB/T1732-93 ASTM D2794	50KG Psaa	50KG Psaa	30KG Psaa
Pencil Hardness	GB/T6739-96 ASTM D3363	2H	3H	3H
Boiling Water Resistance	GB/T1766	No obvious change, 95°C/2h	No obvious change, 95°C/2h	No obvious change, 95°C/5h
Heat-Humidity Resistance for 1000h	GB/T1865-1997	Discoloration grade, loss of gloss levels 2	Discoloration grade, loss of gloss levels 2	Discoloration grade, loss of gloss levels 2
Heat-Humidity Resistance for 1000h	GB/T1740-79 ISO 6270-1	≤Level 1	≤Level 1	≤Level 1
Salt Spray Resistance for 1000h	GB/T1771-91 ISO 9227	Lined: unilateral corrosion ≤2mm	Lined: unilateral corrosion ≤2mm	Lined: unilateral corrosion ≤2mm
Acid Resistance 5%H <sub>2</sub> SO <sub>4</sub> , 5%HCL, 5%H <sub>3</sub> PO <sub>4</sub> , 5%HAC		Discoloration and no blistering for 12 months	Discoloration and no blistering for 12 months	Discoloration and no blistering for 8 months
Alkali Resistance 5%NaOH, 5%Na <sub>2</sub> CO <sub>3</sub>		Discoloration and no blistering for 600h	Discoloration and no blistering for 600h	Discoloration and no blistering for 600h
Solvent Resistance Acetone, Xylene, Gas Oil, Alcohol, Butanone		No colour change or softening after wiping up to 50 times	No colour change or softening after wiping up to 60 times	No colour change or softening after wiping up to 60 times

Notification is required when there is a need to have the coating more than 120 µm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





## [PASSED BS6496/AAMA2603-05/CD1010, ESPECIALLY FOR ARCHITECTURE]

### 01 产品概述 Product overview

Using high quality carboxyl resin and TGIC curing agent as major raw material, which has good climate resistance and salt resistance properties. Designed especially for material using in exterior architecture, the product has good climate resistance property for 10 years in accordance with GB5237.4-2008.

### 02 应用领域 Application field

Be suitable for various exterior metallic products: aluminum extrusions for architecture, car parts, bicycle, courtyard fence, fitness equipment, road fence, exterior air-conditioning and etc.

### 03 产品特征 Product characteristics

Excellent adhesion between coating and substrate. Good mechanical, heat-resistance and chemicals-resistance properties. It isn't easy to turn yellow and there will be pinholes when baking. Good fire-retardant and extinction properties to some extent. The coating is suitable under exposure to rain, snow, etc. The coating is sunlight and atmosphere containing SO<sub>2</sub>.

### 04 基本性能 Basic performance

**S.G.:** 1.2-1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40μm.

**Storage:** The products must be stored in a dry room with temperature below 30°C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 8-12m<sup>2</sup>/kg film thickness 70μm (100% utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

### 05 涂膜效果 Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).

### 06 维护及保养 Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 07 施工条件 Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(°C)	Time(Minutes)
Curing Conditions Recommendations	190	15
	200	10
Film Thickness	Range	40-80μm

**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)

### 08 卫生及安全 Health and safety

There are no toxic ingredients in all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.



### 09 涂膜性能 Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Texture
Film thickness	ISO 2360	60-80μm	60-80μm	40-120μm
Glossiness 60°	ISO 2813	80-98%	5-65%	110%
Cross Cut Adhesion Test	ISO 2409	Level 0	Level 0	Level 1
Erichsen Cupping	ISO 1520	7mm	6mm	5mm
Impact Test	ASTM D2794	50KG Psaa	50KG Psaa	40KG Psaa
Pencil Hardness	ASTM D3363	2H	3H	3H
Boiling Water Resistance	GB/T1766-95	No obvious change,95℃/2h	No obvious change,95℃/2h	No obvious change,95℃/3h
QUV-A3000h	ASTMG-53	Gloss Retention 85%	Gloss Retention 85%	Gloss Retention 85%
QUV-B1500h	ASTMG-53	Gloss Retention 90%	Gloss Retention 90%	Gloss Retention 90%
Mortar Resistance for 24h	ASTMD3260	No peeling or other obvious change	No peeling or other obvious change	No peeling or other obvious change
Hest-Humidity Resistance for1500h	ISO 6270-1	≤Level 1	≤Level 1	≤Level 1
Salt Spray Resistance for1500h	ISO 9227	Crossed: unidirectional rust≤1mm	Crossed: unidirectional rust≤1mm	Crossed: unidirectional rust≤1mm
Florida Exposure	AAMA2603	Florida exposure for 5 years Chalking grade of colour film is 8. Chalking grade of white coating is level 6. Depigmentation ΔE<5,Gloss retention >50%		
To keep the colour and properties of the film without change basically for a longtime,generally we don't suggest our customers to choose bright colour such as orange,red and yellow				

Notification is required when there is a need to have the coating more than 120 μm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





## [PASSED STANDARD BS6496/AAMA2604-ED2015, ESPECIALLY USED FOR ARCHITECTURE]

### 01 产品概述\Product overview

Using fluororesin and curing agent as major raw material, with good climate resistance and salt spray resistance properties. Designed especially for materials using in exterior architecture, the product has good climate resistance property for 15 years according to the requirements of customers.

### 02 应用领域\Application field

Suitable for Aluminum extrusions for architecture, curtain wall, car parts, courtyard fence, chairs in gym and traffic signs etc

### 03 产品特征\Product characteristics

Excellent adhesion between coating and substrate. Good mechanical, heat-resistance and chemicals-resistance properties. It isn't easy to turn yellow and there will be pinholes when baking. Good fire-retardant and extinction properties to some extent. The coating is suitable under exposure to rain, snow extent. The coating is sunlight and atmosphere containing SO<sub>2</sub>.

### 04 基本性能\Basic performance

**S.G.:** 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40μm.

**Storage:** The products must be stored in a dry room with temperature below 30°C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70μm (100% utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

### 05 涂膜效果\Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).

### 06 维护及保养\Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 07 施工条件\Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(°C)	Time(Minutes)
Curing Conditions Recommendations	190	20
	200	15
Film Thickness	Range	40-80μm

**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)

### 08 卫生及安全\Health and safety

There are no toxic ingredients in all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.



### 09 涂膜性能\Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Texture
Film thickness	ISO 2360	60-80μm	60-80μm	40-120μm
Glossiness 60°	ISO 2813	80-98%	5-65%	5-70%
Cross Cut Adhesion Test	ISO 2409	Level 0	Level 0	Level 1
Erichsen Cupping	ISO 1520	7mm	6mm	5mm
Impact Test	ASTM D2794	50KG Psaa	50KG Psaa	40KG Psaa
Pencil Hardness	ASTM D3363	2H	3H	3H
Boiling Water Resistance	GB/T1766-95	No obvious change,95℃/2h	No obvious change,95℃/2h	No obvious change,95℃/4h
QUV-A3000h	ASTMG-53	Gloss Retention 85%	Gloss Retention 85%	Gloss Retention 85%
QUV-B1500h	ASTMG-53	Gloss Retention 90%	Gloss Retention 90%	Gloss Retention 90%
Mortar Resistance for 24h	ASTMD3260	No peeling or other obvious change	No peeling or other obvious change	No peeling or other obvious change
Hest-Humidity Resistance for1500h	ISO 6270-1	≤Level 1	≤Level 1	≤Level 1
Salt Spray Resistance for1500h	ISO 9227	Lined:unilateral corrosion≤1mm	Lined:unilateral corrosion≤1mm	Lined:unilateral corrosion≤1mm
Florida Exposure	AAMA2603	Florida exposure for 8 years equals to normal aging for 15 years in Hongkg. Shanghai and Beijing. Chalking grade of colour film is 8. Chalking grade of white coating is level 6. Depigmentation ΔE<5.Gloss retention >50%		
To keep the colour and properties of the film without change basically for a longtime,generally we don't suggest our customers to choose bright colour such as orange,red and yellow				

Notification is required when there is a need to have the coating more than 120 μm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





## [PASSED STANDARD BS6496/AAMA2605-SD3020, ESPECIALLY FOR SYMBOL ARCHITECTURE]

### 01 产品概述 Product overview

Using Cross-linked fluororesin and curing agent as major raw material, with good climate resistance and salt spray resistance properties. Designed especially for materials using in exterior symbol architecture, the product has good climate resistance property for 20 years according to the requirements of customers.

### 02 应用领域 Application field

Suitable for symbol aluminum, curtain walls, bridges, national gyms, traffic sign setc.

### 03 产品特征 Product characteristics

Excellent adhesion between coating and substrate. Good mechanical, heat-resistance and chemicals-resistance properties. The coating is suitable under exposure to any adverse circumstance for a long time.

### 04 基本性能 Basic performance

**S.G.:** 1.2-1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40μm.

**Storage:** The products must be stored in a dry room with temperature below 30°C and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 8-12m<sup>2</sup>/kg film thickness 70μm (100% utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

### 05 涂膜效果 Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: winkle, sand and metallic effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).

### 06 维护及保养 Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 07 施工条件 Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(°C)	Time(Minutes)
Curing Conditions Recommendations	180	20
	200	15
Film Thickness	Range	40-80μm

**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials. (Please ask us for more information, if needed)

### 08 卫生及安全 Health and safety

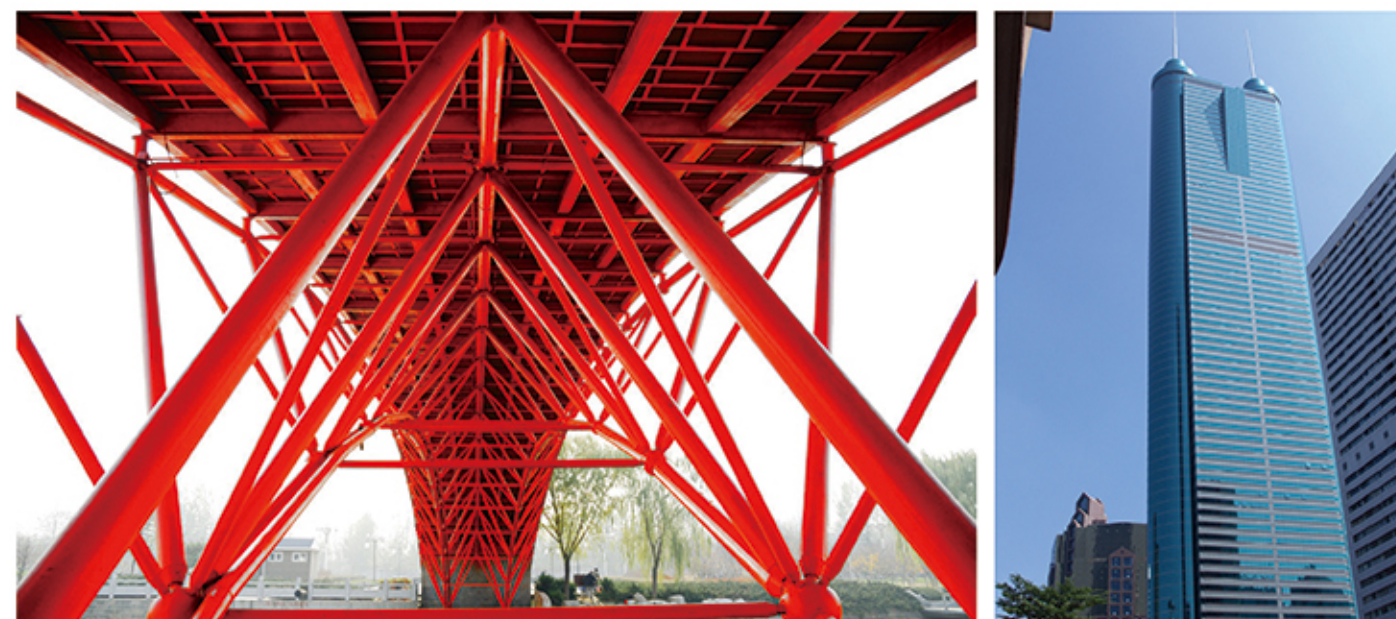
There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.



### 09 涂膜性能 Coating performance

Test Items	Standards and Methods	High Gloss	Matter And Non-gloss	Different Gloss And Texture
Film thickness	ISO 2360	60-80µm	60-80µm	60-120µm
Glossiness 60°	ISO 2813	80-98%	5-65%	5-70%
Cross Cut Adhesion Test	ISO 2409	Level 0	Level 0	Level 1
Erichsen Cupping	ISO 1520	7mm	6mm	5mm
Impact Test	ASTM D2794	50KG Psaa	50KG Psaa	40KG Psaa
Pencil Hardness	ASTM D3363	2H	3H	3H
Boiling Water Resistance	GB/T1766-95	No obvious change,95℃/2h	No obvious change,95℃/2h	No obvious change,95℃/5h
QUV-A3000h	ASTMG-53	Gloss Retention 85%	Gloss Retention 85%	Gloss Retention 85%
QUV-B1500h	ASTMG-53	Gloss Retention 90%	Gloss Retention 90%	Gloss Retention 90%
Mortar Resistance for 24h	ASTMD3260	No peeling or other obvious change	No peeling or other obvious change	No peeling or other obvious change
Hest-Humidity Resistance for1500h	ISO 6270-1	≤Level 1	≤Level 1	≤Level 1
Salt Spray Resistance for1500h	ISO 9227	Lined:unilateral corrosion≤1mm	Lined:unilateral corrosion≤1mm	Lined:unilateral corrosion≤1mm
Florida Exposure	AAMA2603.05	Florida exposure for 10 years. Chalking grade of colour film is 8. Chalking grade of white coating is level 6. Depigmentation ΔE<5.Gloss retention >50%		
To keep the colour and properties of the film without change basically for a longtime,generally we don't suggest our customers to choose bright colour such as orange,red and yellow				

Notification is required when there is a need to have the coating more than 120 μm thick while ordering to avoid unnecessary pin-holes or affect the saturation of the film.





## MDF&WOOD POWDER COATING

### [ULTRAVIOLET CURING COATINGS INCLUDED]

#### 01 产品概述\Product overview

Ultraviolet curing coatings,a special product,which is thermosetting powder coating composing photoconductive resins,photo initiators,pigments,fillers and auxiliary materials.

#### 02 应用领域\Application field

Heat-sensitive substrates like MDF,plastics,paper,Solders,and electronic material.

#### 03 产品特征\Product characteristics

Good chemical property,and excellent edge coverage. Much lower curing temperature and shorter curing time. Suitable for finish and coating of heat-sensitive materials.(An energy conservation product)

#### 04 基本性能\Basic performance

**S.G.:** 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40μm.

**Storage:** The products must be stored in a dry room with temperature below 20℃ and avoid direct sunlight due to poor storage stability for the characteristics of raw materials.

**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70μm (100%utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

#### 05 涂膜效果\Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: texture effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).



#### 06 维护及保养\Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

#### 07 施工条件\Construction conditions

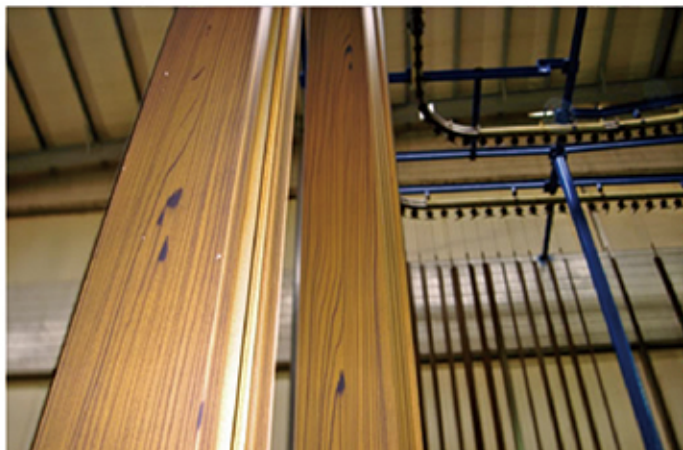
**Spray Guide:**This product is suitable for following coating methods according to the customers' requirements: friction electrostatic spraying,corona electrostatic spraying  
**Coating Process:** The substrate is leveled in forced convection oven after fusing in infrared oven under 90-120℃, and then cured by cross-linking in UV curing oven thereafter.

Curing Conditions	Temperature(℃)	Time(Minutes)
Curing Conditions Recommendations	100	3~10
	120	2~10
Film Thickness	Range	40-80μm

**Surface Treatment of Objects:**Choose a proper way in accordance with different metallic materials and wood.(Please ask us for more information,if needed)

#### 08 卫生及安全\Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.



## ART TEXTURE POWDER COATING

### [MULTIPURPOSE EXTER DECORATIVE COATING]

#### 01 产品概述\Product overview

This series of products are mainly made of epoxy,polyester, epoxy/polyester (hybrid) and polyurethane which simulate wrinkle, hammer, crack,sand silk effects perfectly under several or complicated circumstances.

#### 02 应用领域\Application field

Typically used in objects and facilities with higher requirements on decorative property such as electric control cabinets,security doors,fitness equipments,metallic furniture ,motorbikes etc.

#### 03 产品特征\Product characteristics

Brilliant colour and traditional effect complemented by art textures which enhance the quality of substrates.

#### 04 基本性能\Basic performance

**S.G.:** 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40μm.

**Storage:** The products must be stored in a dry room with temperature below 30℃ and avoid direct sunlight. Under this condition, powder coatings could be stored safely for 12 months. Expired product couldn't be used until test result meets the utilization standards.

**Utilization Rate:** 6--10m<sup>2</sup>/kg film thickness 90μm (100%utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

#### 05 涂膜效果\Effect of coating

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low: texture effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).



#### 06 维护及保养\Maintenance and maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

#### 07 施工条件\Construction conditions

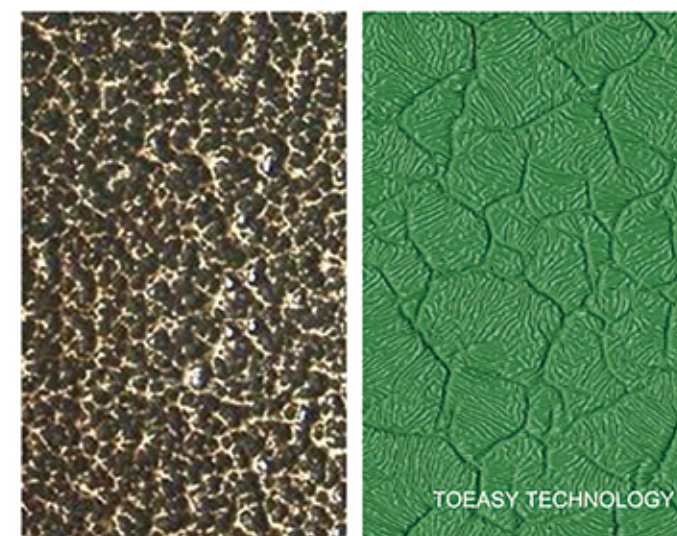
**Spray Guide:**This product is suitable for following coating methods according to the customers' requirements: corona electrostatic spraying, friction electrostatic spraying, electrostatic fluidized beds spraying and fluidized beds dipping.

Curing Conditions	Temperature(℃)	Time(Minutes)
Curing Conditions Recommendations	180	26
	200	20
Film Thickness	Range	60-150μm

**Surface Treatment of Objects:**Choose a proper way in accordance with different metallic materials.(Please ask us for more information,if needed)

#### 08 卫生及安全\Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.





## [USING BONDED TECHNOLOGY]

### 01 产品概述\Product overview

Add metallic pigments into organic powder and then bonding them to accomplish luxury decoration effects like electroplating,crystal metallic gloss and bight as peer.

### 02 应用领域\Application field

Suitable for several exterior metallic products such as fitness equipments,automobile wheel-hubs,bassinets and motorbike parts.

### 03 产品特征\Product characteristics

Good adhesion between coating and substrate.Good mechanical property.

### 04 绑定工艺\The binding process

Add metallic pigments into primer→fusion→dispersion→mixture→bonding→aggregation→adjusting→effect of electroplate

### 05 基本性能\Basic performance

**S.G.:** 1.2--1.7[g/cm<sup>3</sup>] (Varies with colour and gloss).

**Particle Size:** varies with different purposes, the average particle size is 30-40μm.

**Storage:** The products must be stored in a dry room with temperature below 30℃ and avoid direct sunlight due to poor storage stability for the characteristics of raw materials.

**Utilization Rate:** 8--12m<sup>2</sup>/kg film thickness 70μm (100%utilization rate). Practical coating zone varies with shapes of coating equipments and objects.

**Transportation:** The product is not dangerous, and can be transported in any means. However, avoid contamination from direct sunlight exposure, water, oil and other chemical pollution.

### 06 涂膜效果\Effect of coating

There are many surface effects for this product. Customers can chose different special surface effects with entire gloss range from high to low: texture effects etc. (Please refer to our colour card). Customization service is available in accordance with customer's requirement. (Special effects included).



### 07 维护及保养\Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 08 施工条件\Construction conditions

**Spray Guide:**This product is suitable for following coating methods according to the customers`requirements: friction electrostatic spraying,corona electrostatic fluidized beds spraying and fluidized beds dipping

Curing Conditions	Temperature(℃)	Time(Minutes)
Curing Conditions Recommendations	190	15
According to requirements	200	10
	160	20
<b>Film Thickness</b>	Range	40-80μm

**Surface Treatment of Objects:**Choose a proper way in accordance with different metallic materials and.(Please ask us for more information,if needed)

### 09 卫生及安全\Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.



Name	Type	Characteristics	Curing Condition	Usage
E P	Epoxy/Polyester	Excellent leveling and mechanical property.	180℃/15min	Common interior metallic products
TP/TGIC	Polyester/TCIC	Good leveling and climate resistance prorty.Good transparency.	200℃/10min	All kinds of metallic exterior products
Acrylic/PU	Mixed Acrylic	Excellent leveling.Good transparency. Excellent climate and solvent resistance propeity.	200℃/10min	Metallic products which has high transparece requirement
Acrylic	Actylic	Excellent leveling and transparency,brilliant weather and solvent resistance property. Impact resistance is able to be±20kg/cm	200℃/10min	Vanishing finish of the automobiles and wheel-hubsthereof. High quality metal finish.

### 02 维护及保养\Maintenance and maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

**Three steps of film cleaning:**

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 03 施工条件\Construction conditions

**Spray Guide:**This product is suitable for following coating methods according to the customers`requirements: friction electrostatic spraying,corona electrostatic spraying

Film Thickness	Range	40-80μm
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**Surface Treatment of Objects:**Choose a proper way in accordance with different metallic materials and.(Please ask us for more information,if needed)

### 04 卫生及安全\Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.





## AUTO MOBILE WHEEL HUBS PRIMER POWDER

Name	Characteristics	Curing Condition
Pure Polyester Primer	Good weather-resistance, leveling and mechanical property. Excellent adhesion, salt-resistance property.	190℃/20min
High leveling mixed primer	Excellent leveling, mechanical and adhesion property. Good salt-resistance and antistatic shielding property. High powder utilization rate. This products could increase the utilization rate of wheel rims and joints with good compatibility	180℃/20min
High leveling with low gloss mixed primer	Excellent leveling, low gloss, good mechanical and adhesion property. Good salt-resistance properties. High powder utilization rate.	180℃/20min
Low temperature curing	For special substrate which should be cured at a low temperature. Excellent at other property.	160℃/20min
Function	Air-permeability powder	Enhance the air permeability of the film to avoid blisters when the casting is baking in the oven.
	Anti static shielding powder	Enhance antistatic shielding property to increase the powder utilization rate of wheel rims and joints.
		Compared with similar products

### 01 涂膜效果 Film effects

There are many surface effects for this product. Customers can choose different special surface effects with entire gloss range from high to low (Please refer to our pantone card). Customization service is available in accordance with customer's requirement. (Special effects included).

### 02 维护及保养 Maintenance

Please clean up the surface regularly; frequency of cleaning should be more at areas which are very salty and seriously contaminated.

#### Three steps of film cleaning:

1. Wipe the surface with wet cotton cloth to avoid scratches.
2. Add some detergent into warm water, and then wipe the dust, salt and other stain on the surface of film with cotton cloth which has dipped the detergent above.
3. Wipe out the residual detergent when cleaning.

### 03 施工条件 Construction conditions

**Spray Guide:** This product is suitable for following coating methods according to the customers' requirements: friction electrostatic spraying, corona electrostatic spraying

Film Thickness	Range	40-80μm
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**Surface Treatment of Objects:** Choose a proper way in accordance with different metallic materials and. (Please ask us for more information, if needed)

### 04 卫生及安全 Health and safety

There are no toxic ingredients in the all the raw materials of powder coating. However, the inhalation of dust during use should be avoided. The operator should wear PPE such as dust respirator, eyeglasses and protective clothing etc., and try best to avoid long-time contact with the powder coatings. The coatings stick to skin could be washed away by soap. Please give a prior notice if the coating is used in toys to make sure that there is no metallic material to harm the health of children.



## PIPELINE POWDER COATING

Series	Qualifications	Characteristics	Applications
Single layer Epoxy powder coating	ICAN/CSA-Z245.20 SY/T0315-2005	Excellent property of resisting acid, alkaline salt. Resistant corrosion from bio-corrosion, plants roots and ground water effectively.	Exterior wall of steel pipelines for oil, gas and water transportation
Dual layer Epoxy powder coating	Q/CNPN38-2002	Good impact, mar and heat resistance.	Soil in the need of acid, alkaline and salt resistance.
Three layer Epoxy powder coating	CAN/CSA-Z245.20 SY/T0413-2005	Corrosion-resistant and good mechanical property	Soil in the need of acid, alkaline and salt resistance.
Internal layer Epoxy powder coating	SY/T0442	Good flow and leveling property. With a high bonding strength, the smooth surface could not only prevent the substrates free of corrosion but also reduce the friction coefficient as flow resistance in liquid transportation.	Interior wall of steel pipelines for oil, gas and water transportation

## MAGNER WIRES POWDER COATING

As the growing usage of magnet wires in Mechanical-electrical, electronic, telecommunication and automatic-control industry, the requirements of product quality raises to a higher level ever. Meanwhile the environment protection and efficient productivity are in the bad need. The concentrated H<sub>2</sub>SO<sub>4</sub> solvent and insulation-varnish has been widely in the surface treatment for insulation layer in producing enameled aluminum & copper wires and oxidation film. However, in this process, toxic wastes are produced. As such, VOCs are produced owing to the use of concentrated H<sub>2</sub>SO<sub>4</sub> solvent and insulation-varnish, which not only greatly damages to the workers' nasal passage, respiratory tract, skin and the surroundings. In addition, waste water are generated during production will pollute the groundwater if not be treated properly. In terms of productivity there are only 10 copper/aluminum wires can be treated by this method. Besides, the greatest disadvantages of the treatment-process mentioned is that the film has poor flexibility, consequently insulation film are damaged easily when bending or wiring in producing mechanical-electrical equipment, which influence the electricity insulation property and quality of products.

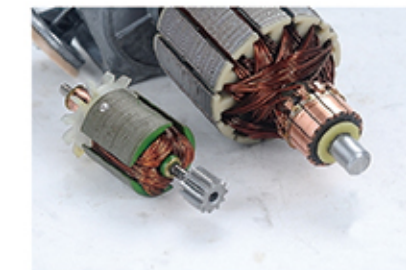
To solve the problems mentioned above, Toeasy Technology Company has always been devoted to research and development and manufacturing in the field of magnet-wire powder coating, which meliorates the film property and reduces the contamination to the environment. In these years Toeasy Technology Company has got the best reputation and recognition by various industries.

## REINFORCING STEEL POWDER COATING

There are always leaks and holes in concrete which allow corrosion agent (like water) in and induce rust of the metal in reinforced concrete. Due to the expansion of the rusted reinforcing steel, which grows to dozen times bigger than before, the cracking surface of the concrete and protection-layer peeling occur. As a result of this, the reinforcing steel in the concrete corrode faster and faster when exposed in atmosphere, water and other corrosion agents to shorten the buildings life. This phenomenon is very common in coastal areas and chemical factories.

The reinforcing steel powder coating help solve this problem. It has the property of flexibility and chemical-stability, water-, salt-, acid-, alkali-resistance, short-curing time. Under any temperature or corrosion circumstance, such powder coating protects the reinforcing steel from layer-peeling, so that the building life can be extended by over 30%.

Application of this powder coating is suitable for buildings or blocks in the area of coast, dock equipment, bridge wire, etc.





## ELECTRIC INSULATION COATING

To achieve the purpose of electric insulation, this product is widely used in rotors, motors, high voltage switch cabinets, voltage converters, electronic components, spiral tubes, copper and aluminum wires and busbars, copper and aluminum electromagnetic wires etc. Excellent leveling property. Good anti-permeability, chemical, water, acid & alkaline, salt and solvent resistance property as well as electricity insulation property.



## FIRE-RETARDANT POWDER COATING



For the electric products, good insulation and flame-retardant is necessary to prevent combustion when heating and discharging electric sparks. With extinguishing property due to special fire-retardant materials in the powder, this product could be covered on the surface of those substrates using in high temperature and flame.

## LOW TEMPERATURE CURING POWDER COATING

This product is especially fit for the objects which are sensitive to heat. The product could be cured at relatively low temperature about 110°C-130°C within 6-20 minutes, which reduces temperature and cut the costs while simulating different effects.



## CONDUCTION POWDER COATING

This product is functional powder coating applied in various fields such as modern electronic, contribution, transportation and military etc. To electric static eliminate, shield electromagnetic interference, electro heating and resistant corrosion by the film with conduction and charge dissipation to some extent.



## ANTI-BACTERIAL POWDER COATING

Using antimicrobial additive during production without changing the basic properties, this type of powder coating could inhibit the growth of bacterial: Coli form bacteria, green pus and staphylococcus etc. Continually and effectively 20 years this inhibition rate up to 99%. Widely used in kitchen, home appliances, medical care and toys for kids to keep your life healthier.



## HEAT RESISTANCE POWDER COATING

The product is for the substrates like heat-radiator pipes, radiators, charcoal ovens, high power lights, auto exhaust pipes and aviation equipments etc. You can use this product on operating temperature surface no exceeding the range from 200°C to 500°C.



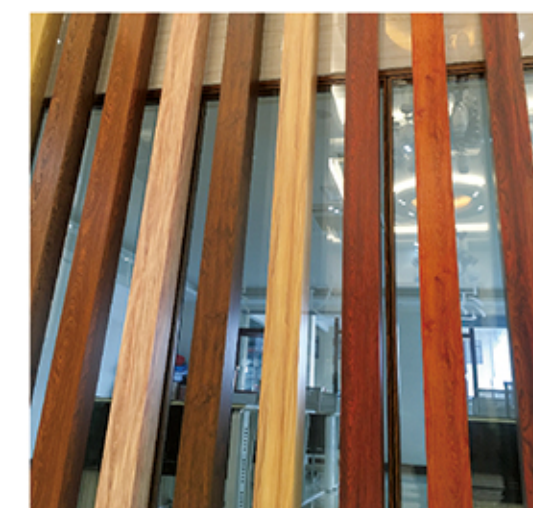
## ULTRA-THIN POWDER COATING

The product is manufactured with Nanoparticles technique to achieve tighter and organized powder particles arrangement which decrease the thickness of film for a perfect leveling property and saturation level of cured film. This increases the added value of the substrates and cut the costs due to economize on powders.



## THERMAL TRANSFER PRINTING POWDER COATING

In liquid coating, there is a water based wood finish for furniture which is possible to achieve natural wood texture effect. Nowadays in powder coatings that similar products or powder coating with such wood texture effect has been developed as well. This product achieves the wood grain effect not by finishing directly but through human interference and special equipment. Besides the wood grain, it is also possible to achieve the marble effect, leather effect, figures, nature landscape effects etc. Varies with the formation principle of different wood effect, the wood grain powder coating could be divided into heat transfer printing finish and 3D wood grain coating. Moreover, heat transfer printing type is suitable for not only interior but also exterior, and could be divided into different types due to raw materials: epoxy type, epoxy / polyester (hybrid) type, polyester resin weather-resistant type and acrylic resin type. This product could be used widely in architecture fields, such as aluminum extrusion, curtain walls and security doors.







## Quality After-sales Services

In order to build up a great reputation of our corporation, to promote the brand and to establish the corporation image, with the spirit of "pursuing the high quality and users' satisfaction", we favor the consumer with the most preferential price, the most attentive service and the most reliable product quality. Herein, we make the commitment for the consumers, and we hope the consumers to supervise us.

### I Commitment on product quality

1. All products of the company are produced strictly according with the production and operation process. And our company establishes a detailed data base so that every process of the product research and development, the production, the inspection and the sales are running smoothly as a whole without errors.
2. We strictly inspect the products for good performance, and it can be sold only when all the results of production tests are qualified.

### II Technical support

1. The design, development, production organization, production process and service of the product are performed and strictly controlled according to the requirement of ISO9001 Quality Management System.

2. During the warranty period, the products provided shall be ensure to be used safely and reliable under the normal operation. In case that a problem occurs when it is used in normal usage, our company promises the quality service. Moreover, if there is other clear regulation in the applied national laws and regulations, our company cooperates and implements in accordance with the related laws and regulations.

3. During the warranty period, if our user has any doubt about the quality, our company shall reply within 24 hours after receiving the user correspondence. If users in China encounter quality problem, our company will send the special person to arrive in the user's location within 72 hours after receiving the user correspondence. Also Users can get a clear solution to the relative technical problem through the after-sales hot line.

### III Commitment on product price

1. In order to ensure the product's high reliability and innovation, the raw materials of our products are selected from the domestic or international provider with the famous brand.
2. We compete fairly and provide the consumers with the most favorable price while we never lower the technical performance of products or the stability of the processing of production to make an offer with low price.

### IV Commitment on the date of delivery

We deliver according to the user requirement so that we ensure the delivery task at high quality, high service and high speed.

### V Commitment on after-sale service

Service mission: Quick, Decisive, accurate, thoughtful and thorough.

Service objective: Service first and quality first.