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JOINTAS

WATER-BASED ANTICORROSIVE PAINT

Solve the VOC emissions problem
Reduce Occupational diseases

"JOINTAS" is a leading brand in the coatings field, providing customized solutions for customers around the world. Its main products: water-based anticorrosive coatings are widely used on steel structure, petrochemical tank, mechanical equipment, interior and exterior wall, railway and bridges, shipping containers etc.

JOINTAS provides customers safe, healthy and environmentally friendly coatings solutions with its excellent performance of bare VOC content, non-flammable and explosive. At present, it has served more than 1,000 steel structure projects, and more than 3 million square meters of petrochemical storage tanks, pipelines and equipment. It is a star supplier on Sinopec Epay authoritatively appraised by the Ministry of Science and Technology. JOINTAS water-based coatings has won the "China Industry-University-Research Cooperation Innovation Award", "China Coatings Industry Development Potential Enterprise Award", "2015 China Anti-corrosion Coatings Famous Brand Award" and many other honors.

COMPANY PROFILE

Guangzhou Jointas Chemical Co., Ltd., founded in 1989, is a national high-tech enterprise specializing in R&D, production and sales of environment-friendly sealants and coatings. Jointas is committed to providing customized solutions to customers around the world. After more than 30 years of development, Jointas has been listed on the SME board of Shenzhen Stock Exchange (stock code: 002909) in 2017. As the leading enterprise in Chinese construction sealant industry, Jointas Chemical has reached 1.2 billion RMB sales volume in 2020.

Jointas has two leading brands in the industry, "antas" and "Jointas". Antas sealant is committed to providing customers with high-quality, stable, safe and reliable sealant products and professional adhesive and sealing technology solutions. The main products cover sealant and adhesive for construction, home fit out and retrofitting, electronic field , automobile, shipbuilding, solar photovoltaic module industry, etc. Jointas water-based coating is committed to providing customers with high-quality, environmental-friendly and green engineering industry and home improvement coating solutions. The main products include coatings for steel structure, petrochemical equipment, container, construction, home decoration, and asphalt coating, etc. The products of the two brands are widely used on construction engineering, home decoration, container manufacturing, steel structure manufacturing, petrochemical equipment, marine and yacht equipment, solar photovoltaic, LED lighting, new energy vehicles, electrical and electronic products, and power transformers and other fields.

Solid products as your best choice

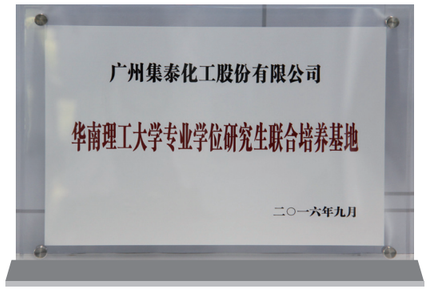
Guangdong Province Coatings Flagship Enterprise

National High-tech Enterprise

National Green Factory

Engineering Technology R&D Center

Industry-University-Research Demonstration Base



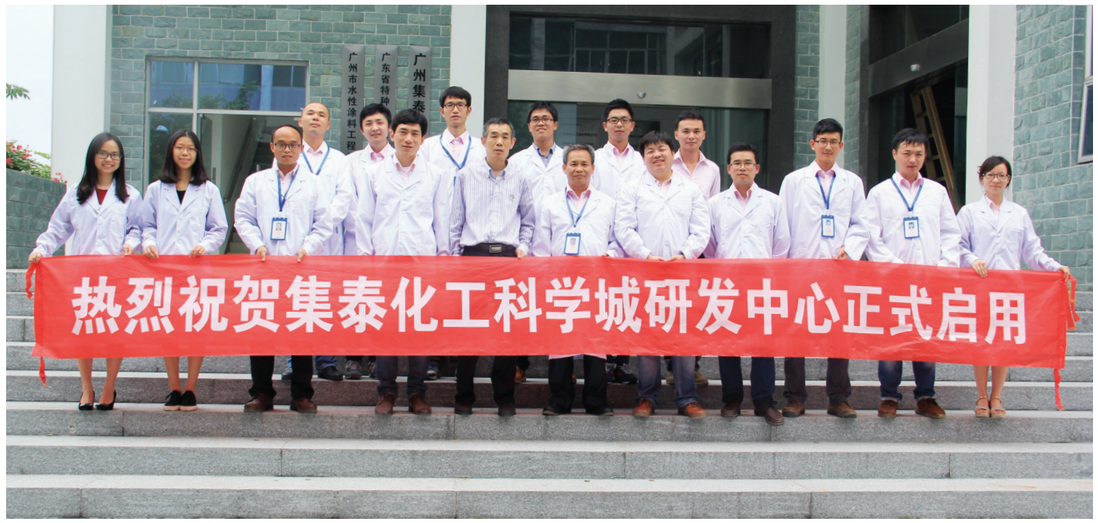
Joint Training Base for Postgraduates with SCUT

Strong R&D strength

Jointas has obtained a number of national invention patent authorizations, and has participated in drafting many national and industry standards such as "Waterborne Anticorrosive Coatings for Steel Structures", "Waterborne Acrylic Anticorrosive Coatings", "Waterborne Epoxy Anticorrosive Coatings", "Waterborne Polyurethane Anticorrosive Coatings" and "Waterborne Alkyd Anticorrosive Coatings".

Jointas and South China University of Technology have established a long-term close cooperation of "Industry-University-Research", applying nano-modification technology to the traditional coating production system, and developing a variety of industrial water-based coatings used in professional fields.

Jointas has successively established a number of provincial and ministerial scientific research institutions such as "Guangdong Academician Expert Enterprise Workstation", "Guangdong Ministry of Education Industry-University-Research Demonstration Base", and won the "2015 China Famous Brand of Anticorrosive Coatings" and "China Industry-University-Research Cooperation Innovation Award" and other national scientific research awards



Approved by Sinopec Technology Achievement

On July 18, 2009, the water-based anti-corrosion and electrostatic-conductive coatings used inside the petrol tank jointly developed by Guangzhou Jointas Chemical Co., Ltd., South China University of Technology, and Sinopec Maoming Branch technically was approved by Sinopec that it filled the industry's gap in China.

After nearly ten years of practical application, it shows that the product is easy to use, non-toxic and non-odor, and it completely solves the potential risks caused by flammable and explosive solvent-based coatings.

JOINTAS
WATER-BASED ANTICORROSIVE PAINT

The 21st century is a green century. Resource saving, energy saving, and pollution-free is the development direction of coatings. At present, most of the anti-rust and anti-corrosion coatings used in China are solvent-based coatings. The biggest disadvantage of these coatings is that they are flammable, explosive and harmful to the human body, they pollute the environment and waste resources and energy.

The new generation of environmentally friendly anticorrosive coatings jointly developed by Jointas and South China University of Technology are made of water-based resins, anti-rust pigments, corrosion inhibitors, inorganic nano materials and related additives. Compared with traditional solvent-based anti-corrosion coatings, it's easy to use and it has the characteristics of environmental protection, safe and harmlessness, leading the development direction anti-corrosion coatings industry.

Features

Environmental friendly and healthy

- The application non-toxic raw materials ensures that the product is environmentally friendly and pollution-free, effectively improving the construction environment of the workshop, protecting the health of craftsmen, and reducing the possibility of occupational diseases.

Safe to use

- Does not contain organic solvents and flammable and explosive ingredients to ensure that the security during transportation, storage and usage.

Convenient construction

- No special safeguard procedure is required during the operation. Dilute the paint and clean tools with clean tap water, which is quick and easy to construct and improve efficiency.

Saving resources

- No need for special diluent, dilute with water, save resources, reduce consumption and overall cost.

JOINTAS 集泰股份

JOINTAS WATER-BASED ANTICORROSIVE PAINT

- **Environmental friendly and healthy**
- **Safe to use**
- **Convenient construction**
- **Saving resources**

GuangZhou Baiyun International Airport

Yulong Yuxi Bridge (2000 tons)

Kunming Expo Low-Carbon Center (8000 tons)

Shandong Lunan International Convention Center (4000 tons)

Qufu Olympic Sports Center (4500 tons)

Nanning Spring City (3500 tons)

BAIC BJEV Laixi Base

Fuyao Glass Suzhou Base

PRODUCT SERIES

For Steel Structure

- JT-202D Water-based Alkyd Anti-Rusting Prime
- JT-204D Water-based Anti-Rusting Primer
- JT-205D Water-based Acrylic Anti-Rusting Primer
- JT-205M Water-based Acrylic Anti-Rusting Topcoat

- JT-288D Water-based Inorganic Zinc-Rich Primer
- JT-268D Water-based Zinc-Rich Epoxy Primer
- JT-266D Water-based Zinc-Rich Epoxy Primer

- JT-213Z Water-based Epoxy Intermediate Coating

- JT-233M Water-based Two Component Polyurethane Topcoat

Machinery Equipment Package

- JT-413D Water-based Two Component Epoxy Primer
- JT-433M Water-based Two Component Polyurethane Topcoat

JT-202D Water-based Alkyd Anti-Rusting Primer

Product Description
JT-202D is new generation, environment friendly, anti-rusting primer. It’ s made of alkyd emulsion, Nano functional material, anti-rusting material and other additives. It’ s organic solvent free, mercury, lead or other heavy-metal free.

Usage
JT-202D is widely used on steel structure buildings and plants, metal machinery and equipment to protect the steel surface from corrosion. It usually used together with water-based topcoat and other solvent paint.

Package
20kg/drum

Features
Low VOCs, non-pollution, non-flammable, non-explosive
Excellent anti-rusting performance
Excellent film closure performance, and early-stage water-resistance performance

Color	Iron red, Iron black, Medium grey
Volume solids	40%
Theoretical paint consumption	8.5m²/kg (Dry film thickness: 35μm)
Density	1.35kg/L
Surface dry	≤0.5h (25℃, 50% humidity)
Total dry	≤5h (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity＜85%)	Min: 4h; Max: 48h
Adhesion	Class 0
Impact resistance	40kg.cm
Recommended Paint system	1. JT-202D Primer: 2 time 2. JT-205M Topcoat: 2 times

JT-204D Water-based Anti-Rusting Primer

Product Description
JT-204D is new generation, environment friendly, anti-rusting primer. It’ s made of alkyd emulsion, Nano functional material, anti-rusting material and other additives. It’ s organic solvent free, mercury, lead or other heavy-metal free.

Usage
JT-204D is used on steel structure buildings and plants to protect the steel surface from corrosion in C1-C3 light corrosive environment. It usually used together with water-based topcoat and other solvent paint.

Package
20kg/drum

Features
Low VOCs, non-pollution, non-flammable, non-explosive
Excellent anti-rusting performance
Excellent film closure performance, and early-stage water-resistance performance

Color	Iron red, Iron black, Medium grey
Volume solids	40%
Theoretical paint consumption	6m²/kg (Dry film thickness: 50μm)
Density	1.32kg/L
Surface dry	≤0.5h (25℃, 50% humidity)
Total dry	≤5h (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity＜85%)	Min: 4h; Max: 48h
Adhesion	Class 1
Impact resistance	50kg.cm
Recommended Paint system	1. JT-204D Primer: 2 time 2. JT-205M Topcoat: 2 times

JT-205D Water-based Acrylic Anti-Rusting Primer

Product Description
JT-205D is new generation, environment friendly, anti-rusting primer. It' s made of acrylic emulsion, Nano functional material, anti-rusting material and other additives. It' s organic solvent free, mercury, lead or other heavy-metal free.

Usage
JT-205D is used on steel structure buildings and plants to protect the steel surface from corrosion in C1-C3 light corrosive environment. It usually used together with water-based topcoat and other solvent paint.

Package
20kg/drum

Features
Low VOCs, non-pollution, non-flammable, non-explosive
Excellent anti-rusting performance
Excellent film closure performance, and early-stage water-resistance performance

Color	Iron red, Iron black, Medium grey
Volume solids	40%
Theoretical paint consumption	8.5m²/kg (Dry film thickness: 35μm)
Density	1.32kg/L
Surface dry	≤0.5h (25℃, 50% humidity)
Total dry	≤5h (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 4h; Max: 48h
Adhesion	Class 0
Impact resistance	50kg.cm
Recommended Paint system	1. JT-205D Primer: 2 time 2. JT-205M Topcoat: 2 times

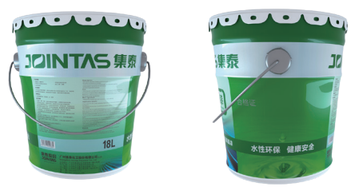
JT-205M Water-based Acrylic Anti-Rusting Topcoat

Product Description
JT-205M is made of acrylic emulsion, Nano functional material, anti-rusting material and other additives. It' s organic solvent free, mercury, lead or other heavy-metal free.

Usage
JT-205M is usually used together with water-based primer on steel structure buildings and plants to protect the steel surface from corrosion in C1-C3 light corrosive environment. It preforms excellently in weather resistance, UV resistance, and remaining its original color for longtime.

Package
20kg/drum

Features
Low VOCs, non-pollution, non-flammable, non-explosive
Excellent weather resistance, UV resistance and color retention performance
Fast drying, and early-stage water-resistance performance



Gloss	flat
Color	According to color chart
Volume solids	40%
Theoretical paint consumption	7.5m²/kg (Dry film thickness: 40μm)
Density	1.22kg/L
Surface dry	≤0.5h (25℃, 50% humidity)
Total dry	≤5h (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 4h; Max: 48h
Adhesion	Class 0
Impact resistance	50kg.cm
Recommended Paint system	1. JT-205D Primer: 2 time 2. JT-205M Topcoat: 2 times

JT-268D Water-based Zinc-Rich Epoxy Primer

Product Description
JT-268D is two component, epoxy zinc-rich primer, it conforms to HG/T 3668, II type primer. It features in low VOCS, excellent anti-corrosion performance, fast drying and easy tooling. At the same time, it is environment friendly. It offers long and effective protection as the primer.

Usage
it' s used as the protective layer on steel or metallized plate surface in C4, C5 heavy corrosive environment (ISO 12944-2). It' s recommended used on steel structure bridge, steel building, shipping container, ship, vehicle, machinery, power plant, harbour machinery, power equipment, pipe, tank, metallurgical equipment, chemical equipment, rail transport, mining machinery, etc.

Features
Excellent corrosion resistance and early-stage water resistance performance.
Excellent adhesion to substrate, especially on carbon steel.
Low VOCs, environment friendly, safe and healthy.
Easy to tool, anti-sagging

Color	Grey
Volume solids	40%
Zinc content (%)	60/70/80±3
Theoretical paint consumption	5.5-6m²/kg (Dry film thickness: 50μm)
Density	1.8-2.0kg/L
Surface dry	≤1h (25℃, 50% humidity)
Total dry	14d (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 6h; Max: 48h
Hardness	2H
Adhesion	≥6Mpa
Impact resistance	≥50cm
Mixing ratio(by weight)	60% zinc content: curing agent=2.5:1 ; 70%/80% zinc content: curing agent=20:9
Applicable period	3h (25℃)

JT-266D Water-based Zinc-Rich Epoxy Primer

Product Description
JT-266D is two component, epoxy zinc-rich primer. It features in low VOCS, excellent anti-corrosion performance, fast drying and easy tooling.

Usage
it' s used as the protective layer on steel in C2-C4 corrosive environment (ISO 12944-2). It' s recommended used on normal steel structure, steel building, vehicle, machinery, pipe, wire frame, iron castings, etc.

Features
Good corrosion resistance and early-stage water resistance performance.
Excellent adhesion to substrate, especially on carbon steel.
Low VOCs, environment friendly, safe and healthy.
Easy to tool, anti-sagging

Color	Grey
Volume solids	≥40%
Zinc content (%)	30/40/50±3
Theoretical paint consumption	6.25m²/kg (Dry film thickness: 40μm)
Density	1.8-2.0kg/L
Surface dry	≤1h (25℃, 50% humidity)
Total dry	14d (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 4h; Max: 48h
Adhesion	≥5Mpa
Impact resistance	≥50kg.cm
Mixing ratio(by weight)	zinc content: curing agent=2.5:1;
Applicable period	4h (25℃)

JT-288D Water-based Organic Zinc-Rich Primer

Product Description

JT-288D is two component, zinc-rich primer, zinc content ≥60%. It conforms to HG/T 3668, I type primer. It’ s made of silicate ester, resin, zinc powder, nano functional material, and additives. It is fast curing and easy to tool, at the same time it performs super excellently in anti-corrosion, rust resistance, water resistance, flush rust resistance, wear resistance, high-temperature resistance. It offers long and effective protection as the primer.

Usage

it’ s used as the protective layer on steel surface in C4, C5 heavy corrosive environment (ISO 12944-2).
It’ s recommended used on water engineering, petrochemical, solvent tank, ballast tank, and marine steel structures, bridge and chimney and other harsh environment applications.

Features

Excellent corrosion resistance and early-stage water resistance performance.
Excellent adhesion to substrate, especially on carbon steel.
Super Low VOCs, environment friendly, safe and healthy.
Excellent water resistance, salt mist resistance, wear resistance and high temperature resistance.

Color	Grey
Volume solids	40%
Zinc content (%)	60/70/80±3
Theoretical paint consumption	3.4m²/kg (Dry film thickness: 50μm)
Density	2.65±0.05kg/L
Surface dry	≤0.5h (15℃), ≤0.3h (25℃)
Total dry	7d (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 6h; Max: 48h
Hardness	2H
Adhesion	≥3Mpa
Impact resistance	≥50cm
Salt mist resistance	1000h
Mixing ratio(by weight)	Zinc content: curing agent=3:7
Applicable period	6h (25℃)

JT-214Z Water-based Epoxy Intermediate Coating

Product Description

JT-214Z is new generation anti-rust coating. It’ s made of two component epoxy resin, amine curing agent, Micaceous Iron Oxide, Nano functional material, anti-rusting material and other additives. It’ s organic solvent free, mercury, lead or other heavy-metal free.

Usage

To be used as the intermediate coating in the multi-coatings anti-corrosion system, JT-214Z is usually used together with zinc-rich primer or epoxy primer on large scale steel structure, machinery to improve entire anti-corrosion performance.

Package

22kg/set, paint: curing agent=20kg: 2kg

Features

Low VOCs, non-pollution, non-flammable, non-explosive
Good adhesion to primer and topcoat.

Color	Grey
Volume solids	46%
Theoretical paint consumption	3.4m²/kg (Dry film thickness: 50μm)
Density	1.35±0.05kg/L
Surface dry	≤1h (25℃, 50% humidity)
Total dry	7d (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 6h; Max: 48h
Adhesion	Class 1
Impact resistance	50kg.cm
Mixing ratio(by weight)	10:1
Applicable period	6h (25℃)

JT-413D Two Component Water-based Epoxy Primer

Product Description

JT-413D is new generation anti-rust primer. It’ s made of two component epoxy resin, amine curing agent, Micaceous Iron Oxide, Nano functional material, anti-rusting material and other additives. It’ s organic solvent free, mercury, lead or other heavy-metal free. The film has excellent performance in water resistance, salt water resistance, salt mist resistance and other chemical medium resistance.

Usage

JT-413D is recommended to be used on high requirements of corrosion resistance, such as: large scale steel structure, machinery equipment, vehicle and bridge chassis, iron castings, pipe, power plants and chemistry plants. It is usually used together with water based topcoat and other solvent paints.

Features

Low VOCs, non-pollution, non-flammable, non-explosive
Good adhesion to substrate and topcoat.
Excellent performance in water resistance, salt water resistance, salt mist resistance and other chemical medium resistance

Color	Iron red/medium grey
Volume solids	52±2%
Theoretical paint consumption	7.14m²/kg (Dry film thickness: 50μm)
Density	1.31±0.05kg/L
Hardness	H-2H
Surface dry	20min (25℃)
Total dry	7d (25℃, 50% humidity)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 6h; Max: 48h
Adhesion	Class 0
Impact resistance	50kg.cm
Mixing ratio(by weight)	5:1
Applicable period	6h (25℃)

JT-233M Two Component Water-based Epoxy Finishing Coating

Product Description

JT-233M is two component, aliphatic polyurethane coating. The film has excellent performance in water resistance, corrosion resistance, weather resistance, and has good adhesion to galvanized, cold-rolled steel sheet, cast iron.

Usage

JT-233M is recommended used together with high performance epoxy/zinc-rich primer in high requirements of corrosion resistance, such as: large scale steel structure, stadium, bridge, petrochemical tank, machinery equipment. It performs super excellently in outdoor weather resistance and corrosion resistance.

Features

Low VOCs, non-pollution, non-flammable, non-explosive
Good adhesion to galvanized, cold-rolled steel sheet, cast iron.
Excellent performance in water resistance, salt mist resistance, weather resistance.

Gloss	Flat
Color	Refer to the color chart
Volume solids	40±2%
Theoretical paint consumption	7.5m²/kg (Dry film thickness: 40μm)
Density	1.3kg/L
Hardness	H-2H
Surface dry	≤1h (15℃), ≤0.5h (25℃), ≤0.3h (35℃)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 4h; Max: 48h
Adhesion	Class 1
Impact resistance	50kg.cm
Mixing ratio(by weight)	
Applicable period	

JT-433M Two Component Water-based Epoxy Finishing Coating

Product Description

JT-433M is two component, aliphatic polyurethane coating. The film has excellent performance in water resistance, corrosion resistance, weather resistance, and has good adhesion to galvanized, cold-rolled steel sheet, cast iron.

Usage

JT-433M is recommended used together with high performance epoxy/zinc-rich primer in high requirements of corrosion resistance, such as: large scale steel structure, stadium, bridge, petrochemical tank, machinery equipment. It performs super excellently in outdoor weather resistance and corrosion resistance.

Features

Low VOCs, non-pollution, non-flammable, non-explosive
Good adhesion to galvanized, cold-rolled steel sheet, cast iron.
Excellent performance in water resistance, salt mist resistance, weather resistance.

Gloss	High gloss (80, 60°)
Color	Refer to the color chart
Volume solids	45±2%
Theoretical paint consumption	10.3m²/kg (Dry film thickness: 40μm)
Density	1.15kg/L
Hardness	HB-H
Surface dry	≤0.5h (25℃)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 4h; Max: 48h
Adhesion	Class 0
Impact resistance	50kg.cm
Salt mist resistance	1000h
Mixing ratio(by weight)	
Applicable period	

JT-403M Water-based High Gloss Water based Finishing Coating

Product Description

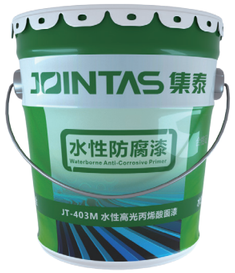
JT-403M is made of acrylic emulsion, Nano functional material, anti-rusting material and other additives. It' s organic solvent free, mercury, lead or other heavy-metal free.

Usage

JT-403M is recommended used together with water based primer on harbor equipment, machinery equipment. It has excellent gloss and hardness and performs excellently in outdoor weather resistance and corrosion resistance.

Package

20kg/drum



Gloss	High gloss (60-90, 60°)
Color	Refer to the color chart
Volume solids	37±2%
Theoretical paint consumption	7m²/kg (Dry film thickness: 40μm)
Density	1.15kg/L
Hardness	HB
Surface dry	≤1.5h (15℃), ≤0.7h (25℃), ≤0.4h (35℃)
Total dry	7d (25℃)
Recoating time (standard condition: 25℃, humidity < 85%)	Min: 4h; Max: 48h
Adhesion	Class 1
Impact resistance	50kg.cm

PRODUCT PACKAGE

General steel structure anti-corrosion packages

Water-based Alkyd Anti-Rusting Primer/

Water-based Anti-Rusting Primer/
Water-based Acrylic Anti-Rusting Primer

Water-based Acrylic Anti-Rusting Finishing Coating

Long acting steel structure anti-corrosion packages

Water-based Inorganic Zinc-Rich Primer/
Water-based Zinc-Rich Epoxy Primer

Water-based Epoxy Intermediate Coating

Water-based Two Component Polyurethane Topcoat

Special steel structure anti-corrosion packages

Water-based Two Component Epoxy Primer
Water-based Two Component Epoxy Topcoat

Machinery anti-corrosion packages

Water-based Two Component Epoxy Primer
Water-based Two Component Polyurethane Topcoat

General Steel Structure Anti-Corrosion Packages

Product	Specification	Color	Number of layer	Dry film thickness	Theoretical paint consumption	Dry film total thickness
Water-based Alkyd Anti-Rusting Primer/ Water-based Anti-Rusting Primer/ Water-based Acrylic Anti-Rusting Primer	JT-202D/ JT-204D/ JT-205D	Iron red/ grey/ iron black	2	70μm	4.5m²/Kg	150μm
Water-based Acrylic Anti-Rusting Finishing Coating	JT- 205M	All colors	2	80μm	3.75m²/Kg	

Application:

1. Suitable to C1-C3 corrosive environment (ISO 9223-2012), unsuitable for marine environment or other acid and alkaline environment.
2. This package can guarantee 4-6 years outdoors and 6-8 years indoors protection. If a longer protection time is needed, please thicken the coating appropriately.
3. Excellent weather resistance and color retention performance.
4. Recommended for steel structure workshops and buildings with general anti-corrosion requirements

Special steel structure anti-corrosion packages

Product	Specification	Color	Number of layer	Dry film thickness	Theoretical paint consumption	Dry film total thickness
Water-based Two Component Epoxy Primer	JT- 213D	Grey, iron red	2	70μm	4.8m²/Kg	150μm
Water-based Two Component Epoxy Topcoat	JT- 213M	All colors	2	100μm	4.2m²/Kg	

Application:

1. Suitable for acid and alkaline environment or long term immersion. Unsuitable for outdoor application.
2. Excellent anti-corrosion performance, good hardness and strength.
3. Recommended for inside petroleum storage tank, water treatment pond, buried pipeline, cement plant, chemistry plant and other special steel structures.

Long acting steel structure anti-corrosion packages

Product	Specification	Color	Number of layer	Dry film thickness	Theoretical paint consumption	Dry film total thickness
Water-based Inorganic Zinc-Rich Primer	JT-288D	grey	1-2	60μm	2.7m²/Kg	220μm
Water-based Epoxy Intermediate Coating	JT-213Z	grey	2	100μm	3.5m²/Kg	
Water-based Two Component Polyurethane Topcoat	JT-233M	All colors	2	60μm	5.6m²/Kg	

Product	Specification	Color	Number of layer	Dry film thickness	Theoretical paint consumption	Dry film total thickness
Water-based Zinc-Rich Epoxy Primer	JT-268D	grey	1-2	60μm	3.9m²/Kg	220μm
Water-based Epoxy Intermediate Coating	JT-214Z	grey	2	100μm	3.5m²/Kg	
Water-based Two Component Polyurethane Topcoat	JT-233M	All colors	2	60μm	5.6m²/Kg	

Application:

1. Suitable to C3-C5 corrosive environment (ISO 9223-2012), for example marine environment or other acid and alkaline environment.
2. This package can guarantee 4-6 years outdoors and 6-8 years indoors protection.
3. Recommended for steel structure bridges, stadium, workshops, and buildings with long term anti-corrosion requirements

Machinery anti-corrosion packages

Product	Specification	Color	Number of layer	Dry film thickness	Theoretical paint consumption	Dry film total thickness
Water-based Two Component Epoxy Primer	JT- 413D	Grey, iron red	1	40μm	7.7m²/Kg	80μm
Water-based Two Component Polyurethane Topcoat	JT- 433M	All colors	1	40μm	10.3m²/Kg	

Application:

1. Suitable for engineering machinery and equipment, harbor equipment, special vehicle, and other machineries.
2. Excellent anti-corrosion and weather resistance performance, good hardness and glossiness.

CONTRUCTION SPECIFICATIONS

Construction specifications and precautions

Construction environment

• The construction site should maintain good ventilation. If construction is carried out in a relatively confined place, effective auxiliary measures, such as high-power industrial fans, should be adopted to enhance air circulation in the construction site. It is recommended that the air volume of the fan is not less than 5000m³/h.

• The ambient temperature should not lower than 5℃, and the surface temperature of the substrate should be at least 3℃ higher than the dew point temperature.

• The relative humidity of the environment should be less than 80%. If the relative humidity exceeds 80% continuously, it is recommended to stop construction or use auxiliary ventilation equipment to enhance air circulation to ensure normal drying.

• Do not work outdoors in rain, snow, dew, or strong wind weather. If the components have been constructed and the paint film is not fully dried, the paint film should be covered by tarpaulin, or the components should be moved indoors.

Substrate processing

• The surface of the component should be derusted by shot blasting or sandblasting to reach the Sa2.5 level specified in GB/T8923.1-2011, or manually derusted to reach the St3.0 level, and the surface roughness should be controlled at 40 -70μm.

• For grease and other dirt on the surface of the component, it is recommended to use a moderately alkaline water-based detergent to remove the oil, and then rinse it off with clean water. Before spraying, dry and clean compressed air can be used to blow the surface of the components clean.

• Finish the spraying process within 6 hours after the surface treatment. In wet weather, the time should be shortened to within 4 hours.

Construction methods

• Brushing, rolling and spraying methods can be used. High-pressure airless sprayer and electric sprayer are recommended to obtain a uniform and smooth paint film and higher coating efficiency.

Mixing ratio

• It is recommended to use an electric mixer for paint mixing.

• For single-component products, the paint needs to be stirred evenly till the paint does not change color in 30 seconds before application.

• Two-component products must be mixed in strict accordance with the weight ratio stated in the product manual. Before mixing, please stir the two components evenly and separately. After mixing, stir evenly again till the color does not change in 30 seconds. And then leave it to mature for 10-30 minutes before application.

• The mixed paint must be used up within the specified applicable period (usually 3-6 hours).
• If water is needed, please add water after the main paint and curing agent are evenly mixed. According to the paint viscosity, add clean tap water to dilute the paint to a suitable viscosity. To ensure the drying time and to get sufficient film thickness and quality, the amount of added water is recommended: 0-10% of the original paint weight.

• In case of rainy weather, construction can be carried out without adding water.

• When mixing the water-based inorganic zinc-rich primer, electric stirring must be used to mix the liquid component evenly, and then add the powder to the liquid according to the specified weight ratio, and stir while adding. After stirring for 5 to10 minutes, it is recommended to filter with an 80 mesh filter to prevent gun blockage.

• For primer products with a zinc powder content of more than 60%, a self-rotating agitator is required to keep the paint in a uniform stirring state throughout the spraying process to prevent the zinc powder from sinking to the bottom.

Construction and maintenance

• Water-based and solvent-based coatings cannot share the spraying equipment. After spray solvent paint or water-based paint, please clean the sprayer with solvent until there is no paint or paint residue sprayed out, and then rinse the spray gun and pipe with clean tap water repeatedly until it’ s totally clean. After the cleanness, next spraying process can be carried out.

• When spraying, the nozzle of the gun should be perpendicular to the object, and please keep 30-50cm from the substrate with the 30-50% overlap requirements to obtain a uniform film.

• Excessively thick wet film will cause sagging and poor levelling. The wet film thickness is recommended not exceed 150μm, and the dry film thickness of single layer should be controlled within 40-60μm to ensure a smooth appearance of the paint film.

• After spraying, do not move or turn over the steel structure before surface dry to avoid damaging the integrity of the paint film and causing problems such as sagging.

• The water-based paint shall not be exposed to rain or sun before it totally dries, it should be keeped indoors.

• If the painting is carried out outdoors or on the construction site, avoid rainy days to prevent the water-based paint from being washed away by rain immediately after painting.

Storage

• The storage environment should be dry, cool and well ventilated. In winter, it must be stored in an environment above 0℃ to avoid freezing.

Health and safety

• Water-based paint is an environmentally friendly product with low VOC emissions, non-toxicity and low odor, and has little impact on coating personnel and the construction environment. We still have the responsibility to remind: please wear protective masks to avoid inhaling paint mist;

• In case of skin contact, please wash it with suitable detergent, soap and water;

• In case of eye contact, please rinse with clean water and seek medical attention in time.

TECHNICAL SERVICE

Featuring environmentally friendly products and aiming to serve end users and projects, Jointas has built a technical service team with solid professional knowledge and excellent service to provide customers with timely and thoughtful consultation and on-site guidance.

• Suggestion and optimization of painting solutions:
According to the specific requirements of the project, we will recommend the optimal matching anti-corrosion solutions for customers, and use the most economical cost to meet the anti-corrosion requirements specified by the project.

• Professional training for painting personnel:
We will carry out necessary professional training for painting personnel according to the requirements of customers, including the selection and maintenance of spraying tools, the specification of spraying methods and the reasonable control of paint consumption.

• On-site service and application guidance:
According to customer requirements, we will dispatch professional and technical personnel to the workshop or construction site to provide necessary on-site guidance for painting operations and solve possible problems timely.

• In-plant service and guidance for major customers:
In the initial stage of customers' use of our products, we will offer in-plant service by professional technicians to ensure that the painters can construct water-based coatings completely independently and can deal with common problems.

• 24 hours quick response:
Since the problem is submitted, we will give solutions and suggestions or arrange service personnel to the factory within 24 hours.