



Product Overview

- ◆ Category: This product is a one-component drying paint using high-grade resin as the film-forming substance;
- ◆ Composition: high-grade resin, pigment, filler, additives, water, etc;
- ◆ Features: non-flammable and non-explosive, in line with the EU RoHs directive, with excellent mechanical strength, adhesion, salt spray resistance and decorative properties.

Scope of application

It is suitable for various light industrial products, electromechanical, instrumentation, transportation and other metal surfaces.

Technical index (typical data)

Item	Indicator
Color and appearance	Yellow viscous liquid
Fineness	$\leq 20\mu\text{m}$
PH value	8.0~9.0
Viscosity of original paint (coated-4 cups, 23 \pm 2°C)	≥ 26 seconds
Original paint solid content (120°C/2h)	$\geq 24.5\%$
Glossiness (60° photometer)	≥ 100
Adhesion (circle scribing method)	≤ 1 grade
Impact strength	$\geq 50\text{kg}\cdot\text{cm}$
Pencil hardness	$\geq 2\text{H}$

Construction reference

- ◆ Surface treatment: safely remove impurities such as floating ash, floating rust and oil from the surface of the workpiece to be coated, so that the surface of the workpiece to be coated is clean and dry;
- ◆ Construction method: dip coating;
- ◆ Diluent: pure water or deionized water;
- ◆ Dilution ratio: 20%~30% of the weight of the original paint with water (this test, please dilute with water according to the lower limit of 20% first, and continue to dilute only when necessary);
- ◆ Construction viscosity: dip coating viscosity: 20~22 seconds (coated-4 cups, 23 \pm 2°C);
- ◆ Drying mode: 210 \pm 2°C, constant temperature baking for 150~180 seconds;



Tank liquid parameters control

Parameter control items	Detection method	Indicator	Control
Viscosity (sec)	Coating-4 cups (room temperature)	20-22 seconds	1 every 2 hours
PH value	PH meter / precision PH test paper	8.2-8.5	1 time per day

Adjustment of tank liquid parameters

Viscosity: If the viscosity is low, add original paint for adjustment, and if necessary, make up the original paint after extracting part of the tank liquid for adjustment;

If the viscosity is high, deionized water should be added for adjustment, but the solid content should not be lower than 18.5%;

If the viscosity is too high, please inform the manufacturer if the deionized water is still unable to meet the construction requirements even after the upper limit of dilution.

Caution

- 1、 The degree of treatment of metal substrate will directly affect the later effect and protection performance of the coating film;
- 2、 Please stir well before using the original paint and put it into the tank;
- 3、 The area of the low point of the painted workpiece should be reduced as much as possible to reduce the accumulation of liquid;
- 4、 The dip coating equipment should be equipped with a circulating system, there is a 180 purpose filter in the circulating system and the filter should be cleaned regularly, the circulating system is to maintain the uniformity of the tank liquid and prevent the tank liquid from sinking, the tank liquid should be stirred evenly before the dip coating operation;
- 5、 If the temperature of the tank liquid cannot be controlled within the required range (in general, it cannot be higher than the indoor ambient temperature), the circulation system should be equipped with a thermostat, especially when there is external heat brought into the tank liquid to raise the temperature, more attention should be paid;
- 6, the tank liquid such as long periods of non-use need to open the circulation system no less than 1 time per week, each time not less than 30 minutes, stop stirring on the liquid surface of a thin layer of pure water or deionized water, to prevent excessive settlement and liquid surface crusting (except in the case of unused tank liquid and back to the original packaging barrel, but at this time need to prevent the introduction of external impurities);;
- 7、 If the tank is maintained normally, there is no need to clean the tank within one year,



but when the bottom of the tank is found to have a "hard sink", the tank should be cleaned in time, the tank should be pumped out, the debris at the bottom of the tank should be removed, and the tank should be added and refilled with new paint;

8、 The product should be stored in a cool and ventilated place at a temperature of 0°C~45°C, and is valid for one year; if the storage period has expired, it can still be used after passing the inspection.

Package and transportation

- ◆Packaging: 50kg/barrel;
- ◆Transportation: according to non-dangerous goods.

Declaration

The information provided in this product specification is based entirely on our knowledge gained in the laboratory and practice. However, since the use of the product is usually beyond our control, we only give a guarantee of the quality of the product itself. We reserve the right to modify this manual without prior notice. For more information, please consult our website: www.towercoating.com

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