

## Product Overview

Category: This product is a one-component drying color paint using high-grade resin as the film-forming substance;

Composition: High-grade resin, pigment, filler, additives, water, etc;

Features: the product uses water as the dispersion medium, non-flammable and non-explosive at room temperature;

Excellent adhesion, weathering resistance and protective decorative properties;

Because the volatility of water is less than that of organic solvents, the construction area under the same construction thickness is larger than that of oil-based paint;

Construction process and coating film-forming process are free of toxic and harmful substances, in line with the requirements, in line with the directive.

## Scope of application

Applicable to various light industrial products, electromechanical, instrumentation, transportation and other metal surfaces.

## Technical index (data)

| Item                                                                                                                                     | Indicator                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Color and appearance                                                                                                                     | Various colors of viscous liquid                                   |
| Fineness                                                                                                                                 | $\leq 20\mu\text{m}$                                               |
| PH value                                                                                                                                 | 8.0~9.0                                                            |
| Viscosity (coated-4 cups)                                                                                                                | $\geq 45\text{sec}$                                                |
| Solid content (120°C/2hours)                                                                                                             | $\geq 35\%$                                                        |
| Glossiness (60° photometer)                                                                                                              | 0~90                                                               |
| Adhesion (circle scribing method)                                                                                                        | $\leq 1$ grade                                                     |
| Impact strength                                                                                                                          | $\geq 50\text{kg.cm}$                                              |
| Pencil hardness                                                                                                                          | $\geq 2\text{H}$                                                   |
| Flexibility                                                                                                                              | $\leq 1\text{mm}$                                                  |
| Salt water resistance (3% NaCl solution)                                                                                                 | (single-layer paint film) 120 hours without blistering and peeling |
| Salt spray resistance (neutral salt water spray test)                                                                                    | (Single-layer film) 96 hours without blistering and peeling        |
| Alcohol wipe resistance (wipe back and forth 30 times)                                                                                   | No color loss                                                      |
| (Note: The test conditions for salt water and salt spray resistance are<br>1. Substrate: Degreased and polished cold-rolled steel plate; |                                                                    |



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| <ol style="list-style-type: none"><li>2. Coating: sprayed, dry film <math>20\ \mu\text{m}\sim 25\ \mu\text{m}</math>;</li><li>3. Drying: <math>145\pm 2^{\circ}\text{C}</math>, constant temperature baking for 30 minutes.</li></ol> |
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## 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: spraying or brushing, soft wool brush is suitable for brushing;

◆Diluent: pure water or clean tap water;

◆Dilution ratio: 10%~25% of the weight of the original paint with water, or adjusted according to the specific situation;

◆Construction viscosity: spraying viscosity: 25~30 seconds (coated-4 cups,  $23\pm 2^{\circ}\text{C}$ );

◆Drying mode:  $145\pm 2^{\circ}\text{C}$  (low temperature type) /  $175\pm 2^{\circ}\text{C}$  (high temperature type), constant temperature baking for 30 minutes;

◆Coating thickness: single layer dry film thickness  $15\ \mu\text{m}\sim 25\ \mu\text{m}$ .

## Caution

◆The degree of superiority or inferiority of metal substrate treatment will directly affect the back effect and protective performance of the coating film;

◆The workpiece after coating should be left in a dust-free environment for 3~8 minutes before entering the baking equipment;

◆The product should be stored in a cool and ventilated place with the temperature of  $0^{\circ}\text{C}\sim 45^{\circ}\text{C}$ , and it is valid for one year; if the storage period is over, it can still be used after passing the inspection.

## Package and transportation

◆Packaging: 20kg/barrel;

◆Transportation: according to non-dangerous goods.

## Declaration

The information provided in this product specification is entirely based on our knowledge gained in 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](http://www.towercoating.com)

Water-based acrylic primer (drying)



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