

WPU-TC0430 Waterborne HP Polyurethane Topcoat

Product Description

WPU-TC0430 is a 2k Waterborne Polyurethane Topcoat.

Typical Use

It is recommended to be used on the surfaces of steel structures, equipment, motors, and machinery under ISO 12944-2 C3 and C4 corrosion environment. It is advised to pair with waterborne epoxy coatings, providing good color and gloss retention. It can also be used as DTM coating on the surfaces of well-prepared substrates, such as galvanized parts and standard aluminum alloys, offering strong adhesion.

Physical Parameter

Color available	Mid Gray, Iron Red, Black, Light Gray, White, Blue, Green, Red, Yellow, and customized.
Gloss	61~80
VOC (g/L)	<150
Volume Solids	42±2%
Density (g/ml)	1.15
Dry film Thickness(μm)	40~50
Theoretical Coverage	10.5m ² /L, 8.75m ² /kg

Substrate Preparation

The surface of the substrate should be clean and dry, free from oil, dust and other contaminations

Application Conditions

- (1) The substrate temperature must be at least 3°C above the dew point, with a relative humidity not exceeding 85%. The optimal humidity range for application is 40~75%
- (2) For applications in confined or enclosed spaces, as well as in low-temperature and high-humidity environments, ventilation must be increased during application and drying

Application

Mixing Ratio (by Weight)		Hardener	Induction Time (23°C)	Pot Life (23°C)	Thinner
Part A	Part B				
6	1	WPH108	5Min	4H	Deionized water

Methods	Air Spraying	Airless Spraying	Brush	Roller
Nozzle	1.5~2.5mm	0.33~0.46mm	Be applicable	Be applicable
Pressure	0.3~0.5MPa	15MPa		

Drying Time

Temperature of substrate	10°C	23°C	30°C	40°C
Surface Dry Time	4H	2H	40Min	20Min
Full Drying Time	36H	24H	12H	6H
Min. Recoating Interval	24H	18H	12H	6H

Recommended System

Previous coat: Waterborne epoxy primer

Subsequent coat: Waterborne polyurethane varnish

Storage

6 months in a dry, ventilated and cool place under sealed container, away from heat and fire.

For professional use only!