ZD6430 polyurethane topcoat

Product Description:

A high crosslinking two-component aliphatic topcoat made of hydroxy acrylic resin, aliphatic isocyanate curing agent, and high weather resistant pigment.

Main features:

Excellent adhesion, tough paint film, good impact resistance, excellent light and color retention, integrating protection and high decorative functions;

Excellent outdoor durability, excellent acid rain resistance, and long-term resistance to strong changes in marine climate and erosion from seawater splashes;

Has excellent resistance to acid, alkali, solvent, salt, and water splashes; Good coating performance.

Design purpose:

Suitable for coating on top of previous coatings such as epoxy or polyurethane, used as a protective high decorative weather resistant topcoat for metal structures or concrete surfaces in various atmospheric environments.

Specification data:

Color: Various colors

Gloss: semi-gloss

Volume solid content: 60 ± 3%

Mixed density (kg/L): 1.4 ± 0.1

Typical film thickness and theoretical coating rate:

	Minimum	Typical	Highest
Dry film thickness (μm)	30	50	80

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Wet film thickness (μm)	50	84	134
Theoretical coating rate (kg/m2)	0.07	0.117	0.187

Actual coating rate: Allow for appropriate loss coefficient

VOC content: ≤ 350g/L

Construction Instructions

Applicable substrate and surface treatment:

Use appropriate cleaning agents to remove all grease and dirt from the construction surface, keeping the surface clean, dry, and free of pollution.

This product must be coated on the recommended anti rust paint and applied within the specified recoating interval. The damaged areas of the primer must be treated with spray treatment to Sa.2.5 level (ISO8501-1) or power treatment to St3 level standard, and these areas must be repainted with primer.

Construction and solidification environmental conditions:

The construction surface must be kept clean and dry, and the substrate temperature must be 3 ℃ above the dew point to avoid condensation of water vapor. This product can react and solidify even at temperatures as low as -10 ℃, as long as there is no frost on the surface. During construction in narrow spaces and dry periods, extensive ventilation is required.

Outdoor use is prohibited in adverse weather conditions such as rain, fog, snow, strong winds, and large dust;

Paint preparation:

Mixing: This product is available in two cans, forming a unit for supply. When using, first stir the main paint evenly with an electric mixer, add the curing agent in the specified ratio, stir evenly with an electric mixer, and add an appropriate amount of matching diluent to adjust to the appropriate construction viscosity. Once mixed, it must be used within the specified mixing period.

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Diluent/cleaning agent: ZX-780 diluent

Mixing ratio (weight ratio): A (main paint): B (curing agent)=5:1

Maturity time: No need for maturation

Pot life after mixing:

5℃	15℃	25℃	35℃
6h	5h	4h	2.5h

Construction:

Construction method: It is recommended to use airless spraying and air spraying. Brushing and rolling coating are only recommended for precoating, small area coating or repair.

It is advisable to use soft bristled brushes or short bristled rollers to reduce the generation of bubbles.

Construction parameters:

Construction method	Unit	high-pressure airless spraying,	air spraying	brush coating/roller coating
Spray gun aperture	mm	0.43～0.58	1.5～2.5	——
Spray pressure	kg/cm^2	150～200	3～4	——
Dilution amount	%	0～10	10～20	5～10

Drying/curing time and coating interval:

Surface temperature of substrate	-5℃	5℃	15℃	25℃	35℃
Surface	2h	1h	45min	30min	20min

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dryness					
Actual drying	48h	24h	12h	8h	4h
Shortest coating interval	36h	24h	12h	8h	4h
Longest coating interval	There are no restrictions on self coating, and the surface to be coated should be free of powdering and other pollutants, kept clean and dry. If necessary, sufficient roughening should be carried out before coating				

Note: The above data were measured under good ventilation conditions, typical film thickness, and relative humidity of 75%, and are for reference only. The actual drying time and time interval before coating can be long or short, depending on factors such as film thickness, ventilation conditions, humidity, underlying paint, early loading and unloading requirements, and mechanical strength.

Typical paint matching:

Previous paint: various epoxy, polyurethane intermediate coatings or anti rust primers, please consult Wuxi Huadong Zindn Company for details.

Remarks:

The prescribed diluent must be used and applied to the matching primer or intermediate paint, otherwise it will affect the product quality.

During the painting process, contact with water, acid, alkali, alcohol, etc. is strictly prohibited. Component B is prone to react with substances such as water and alcohol, and the packaging bucket for the remaining component B after painting must be tightly sealed.

During construction and drying curing, the relative humidity shall not exceed 80%.

During the painting process, or shortly after painting, the surface may suffer from water vapor condensation and sudden cooling, which can cause the surface to lose its luster, turn white, and deteriorate in quality.

When using roller coating and brush coating, in order to achieve complete coverage, multiple coats may be required, especially for some lead-free bright colors such

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as yellow, orange, etc.

Packaging, Storage, and Management:

Packaging specifications: 20kg for component A, 4kg for component B

Flash point:>25 ℃ (A, B, and mixtures)

Storage conditions: It must be stored in accordance with national regulations. The storage environment should be dry, cool, well ventilated, and avoid heat and fire sources. The packaging container must be kept sealed.

Storage validity period: The storage validity period under good storage conditions is 1 year.

Health, Safety, and Environmental Protection:

This product contains flammable materials, and construction site safety should comply with relevant national or local government regulations. Please pay attention to the safety label on the packaging and read the Product Safety Data Sheet (MSDS). Avoid inhaling solvent vapors and paint mist, avoid paint contact with skin and eyes, strictly prohibit swallowing this product, take necessary precautions and protective measures to prevent fire, explosion, and protect the environment. This product should be used in a well ventilated environment. Strong ventilation must be provided for construction in narrow or poorly ventilated areas.

Waste disposal must comply with relevant national or local government regulations.

Declaration:

The information and data of this product are accumulated based on our experiments and practical experience, and can be used as a construction guide. However, as the use of the product is usually beyond our control, we only provide a guarantee of the quality of the product itself. Our company reserves the right to make modifications based on continuous product improvement without prior notice.

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