ZD6080 Epoxy zinc rich paint

Product Deseription:

A kind of two-component high solid heavy-duty anticorrosive epoxy zinc-rich primer composed of epoxy resin, zinc powder, solvent, additives and polyamide curing agent, dry film metal zinc content ≥80%.

Main features:

The paint film has excellent anti-rust properties.

Provides cathodic protection to localied damaged areas.

Excellent adhesion to jet-cleaned carbon steel surfaces.

Design purpose:

As a primer, it is used for spray cleaned bare steel surfaces in medium to severe corrosive environments, such as steel structures, bridges, port machinery, offshore platforms, engineering machinery, storage tanks and pipelines, power facilities, etc. When used in conjunction with high-performance paints, it can further improve the anti-corrosion performance of the coating;Can be used on zincrich shop primer surfaces with approved retention.

Can be used to repair damaged areas of galvanized parts or zinc silicate primer coatings.

The cathodic protection against rust can only be utilized on surface treatedto bare steel during maintenance.

Specification data:

Color: Gray

Gloss:Flat

Volume solid content:65±3%

Mixed density (kg/L):2.5±0.1

zd.rich-tech-coatings.com · WhatsApp +86 136 1192 0143

Typical film thickness and theoretical coating rate:

	Minimum	Typical	Highest
Dry film thickness (μm)	40	60	80
Wet film thickness (μm)	62	93	124
Theoreticalcoating rate (kg/m2)	0.154	0.23	0.307

Actual coating rate: Allow for appropriate loss coefficient

VOC content: ≤ 350g/L

Construction Instructions

Applicable substrate and surface treatment:

New steel: Use appropriate cleaning agents to remove surface grease, and rinse the surface with fresh water for salt and other contaminants. Remove welding slag, grind the weld seam and sharp edges, sand blast clean to Sa2.5 level (ISO8501-1), and achieve a surface roughness of Rz 30 μm~75 μm (moderate roughness in ISO8503-1 comparison plate) for optimal results. It is best to apply primer within 4 hours after sand blast cleaning.

Hot dip galvanized surface: Contaminants (such as grease, oil, residual flux, or marking materials) on the surface of unweathered hot-dip galvanized steel should be removed. The zinc layer can be cleaned by sweeping and spraying non-metallic abrasives. After sweeping and spraying cleaning, the zinc layer should be continuous without mechanical damage. The galvanized surface should be free of adhering impurities that could damage the durability of the anti-corrosion coating (zinc layer and subsequent paint coating). The surface cleaned by sweeping and spraying should have a uniform dull appearance. The recommended surface profile (roughness) is 30-50 microns, with a minimum zinc layer retained above 30 microns. On the surface of weathered hot-dip galvanized steel, zinc corrosion products (white rust) have formed, and foreign pollutants may accumulate. The surface should be treated using appropriate methods based on the scope of pollution and the nature of the pollutants. Oxidation products, certain salts, and other pollutants can be removed by cleaning with fresh water containing cleaning agents and grinding with synthetic fiber

zd.rich-tech-coatings.com · WhatsApp +86 136 1192 0143

filaments as abrasives using grinding wheels (or brushes), and then thoroughly cleaned with hot water. Hot water cleaning, high-pressure water cleaning, steam cleaning, sweeping spray treatment, or manual and power tool cleaning methods can also be used.

Maintenance: Thoroughly remove grease and oil from the surface with a suitable cleaner, and wash off saltand other dirt with high-pressure fresh water, It is better to remove rust and other loose materials byjet cleaning, or use power tools to polish small areas of rust, and then use this product to patch theexposed areas.

Construction and solidification environmental conditions:

The construction environment temperature should be between 5-38 ℃, the relative humidity of the air should not exceed 85%, and the surface temperature of the steel should be 3 ℃ higher than the dew point; Outdoor use is prohibited in adverse weather conditions such as rain, fog, snow, strong winds, and large dust;

High temperatures in summer, be careful with dry spraying. During construction in narrow spaces and dry periods, extensive ventilation is required;

The construction environment temperature is -5~5 ℃, and low-temperature curing products or other measures should be taken to ensure the normal curing of the paint film.

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.

Diluent/cleaning agent: X-500 epoxy diluent

Mixing ratio (weight ratio): A (main paint): B (curing agent)=10:1

Maturity time: 20 minutes (25 ℃)

zd.rich-tech-coatings.com · WhatsApp +86 136 1192 0143

Pot life after mixing:

5℃	15℃	25℃	35℃
6h	5h	4h	3h

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.

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℃	15℃	25℃	35℃
Surface dryness	5h	2h	30min	10min
Actual drying	24h	20h	14h	10h
Shortest coating interval	20h	15h	10h	6h

zd.rich-tech-coatings.com · WhatsApp +86 136 1192 0143

Longest coating interval	The surface should be clean and dry and free of zinc salts and contaminants before applying the next 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:

Front matching paint: Hot dip galvanized surface, or directly sprayed on steel surfaces with surface treatment reaching Sa2.5 or St3 level, or on approved workshop primer, zinc rich primer, epoxy primer surfaces.

Rear matching paint: Matching paint: epoxy series paint, chlorinated rubber series, etc. cannot be matched with alkyd paint Packing,

Packaging, Storage, and Management:

Packaging specifications: 25kg for component A, 2.5kg 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

zd.rich-tech-coatings.com · WhatsApp +86 136 1192 0143

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.

The version information was published in July 2020, and this manual replaces the previous version

zd.rich-tech-coatings.com · WhatsApp +86 136 1192 0143

Contact us / 联系我们

RichTech Industrial Technology (Shanghai) Co., Ltd.

锐亿奇工业科技（上海）有限公司

Heavy-duty coatings · 工业重防腐涂料

Address 地址

10F, Changhui Building, No.799 Yinxiang Road, Jiading District, Shanghai, China

上海市嘉定区银翔路 799 号昌辉大厦 10F

WhatsApp	+86 136 1192 0143
WeChat 微信	+86 183 2185 3252
Email 邮箱	sales@rich-tech.net
Web 网址	zd.rich-tech-coatings.com

Scan to contact us 扫码联系我们

WeChat 微信

+86 183 2185 3252

WhatsApp

+86 136 1192 0143