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# 技术说明书

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本资料由 **锐亿奇工业科技（上海）有限公司** 整理提供，仅供客户选型参考，具体性能参数以原厂最新版本为准
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# ZD6311B 环氧厚浆漆
# ZD6311B Epoxy High Build Paint

## 产品说明
## Product description

由环氧树脂、颜填料及胺固化剂等组成的双组份高固体份环氧漆。
A two-component high solid epoxy paint composed of epoxy resin, pigment fillers, and amine curing agents.

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## 主要特征
## Key features

- 具有优异的耐水性和防锈性能。
- Has excellent water resistance and rust resistance.
- 具有较好的抗化学药品性能和耐油性。
- Has good chemical resistance and oil resistance.
- 具有良好的附着力、耐冲击性、耐磨性。
- Has good adhesion, impact resistance, and wear resistance.

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## 设计用途
## Recommended use

适用于严重腐蚀环境的钢材和混凝土防护，可作为中间漆使用，也可作为内部结构的面漆使用。
Suitable for steel and concrete protection in severely corrosive environments, it can be used as an intermediate paint or as a topcoat for internal structures.

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## 规格数据
## Basic data

颜色： 灰色和其它可能的颜色
**Color**: grey and other possible colors
光泽： 无光
**Gloss**: Matt
体积固体含量：80±3%
**Volume solids**：80±3%
混合密度(kg/L)：1.7±0.1

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**Density mixed**(kg/L)：1.7±0.1

典型膜厚与理论涂布率

**Typical dry film thickness and theoretical spreading rate**

| | 最低<br>Minimum | 典型<br>Typical | 最高<br>Maximum |
|---|---|---|---|
| 干膜厚度（μm）<br>Dry film thickness（μm） | 75 | 125 | 200 |
| 湿膜厚度（μm）<br>Wet film thickness （μm） | 100 | 167 | 267 |
| 理论涂布率（$m^2$/L）<br>theoretical spreading rate （$m^2$/L） | 10.6 | 6.4 | 4 |
| 理论涂布率（$m^2$/kg）<br>Theoretical spreading rate （$m^2$/kg） | 6.27 | 3.76 | 2.35 |

实际涂布率：　　允许适当的损耗系数

**Practical spread rate**:　　consider appropriated loss factor

出厂 **VOC** 含量(g/l)：　　~ 240g/L（按 GB 30981.2-2025 检测）

**VOC**(supplied, g/L):　　~ 240(follow GB 30981.2-2025)

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## 施工说明
## Application instruction

适用底材与表面处理

**Suitable substrate and treatment**

底材状况

**Substrate condition**

- 所有需涂装的表面应清洁、干燥且无污物，表面应按照 ISO8504 进行评估和处理。
- All surfaces to be coated must be clean, dry, and free from contaminants. Surface preparation shall be assessed and treated in accordance with ISO 8504.
- 维修：彻底清除表面的油脂，用高压淡水清洗掉盐份和其它污物并打磨。
- Repair: Thoroughly remove surface grease, clean salt and other contaminants with high-pressure fresh water and sanding.
- 混凝土表面：需采用合适的封闭底漆封闭表面孔隙后涂装。
- Concrete surface: Suitable sealing primer should be used to seal the surface pores before painting.
- 其它表面：请咨询我公司。
- Other surfaces: Please consult our company.

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施工和固化条件

**Application and cure condition**

底材温度和施工条件

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**substrate temperature and application conditions**

- 施工环境温度 5℃-38℃，相对湿度不大于 85%。底材表面温度应高于露点 3℃以上。在狭窄空间施工和干燥期间，需大量通风。
- The application environment temperature ranges from 5℃ to 38℃, with a relative humidity not exceeding 85%.The substrate temperature should be at least 3°C above the dew point of the surrounding air. During application and drying in confined spaces, ample ventilation is required.
- 雨、雾、雪、大风和较大灰尘等恶劣天气，禁止户外使用
- Outdoor application is prohibited in severe weather conditions such as rain, fog, snow, strong winds, and sandstorm etc.

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## 油漆混合
## Product mix

- 混合：本产品为两罐装，组成一个单元供应。使用时先用电动搅拌器搅匀主漆，把固化剂规定比例加入，用电动搅拌器搅匀，并添加适量配套稀释剂调整到合适的施工粘度。一经混合，必须在规定的混合适用期内使用。
- **Mixing:** This product is supplied as a two-component system in separate containers. Before use, thoroughly stir the base paint using a power mixer. Then add the hardener in the specified ratio and mix uniformly with the power mixer. Adjust to the proper application viscosity by adding an appropriate amount of the recommended thinner. Once mixed, the material must be used within the specified pot life.
- 稀释剂/清洗剂：X-500 稀释剂
- **Thinner/cleaner**: Thinner X-500
- 混合比例（重量比）： 甲（主漆）：乙（固化剂）=25：3
- **Mixing ration (by weight)**: A(main): B (curing agent) =25:3
- 熟化时间：无需熟化
- **Induction time**: No

混合后适用期（合适的施工粘度）
**Pot life (suitable application viscosity)**

| 油漆温度(℃)<br>Paint temperature (℃ ) | 5℃ | 15℃ | 25℃ | 35℃ |
|---|---|---|---|---|
| 适用期（小时）<br>Pot life(hours) | 4 | 3 | 2 | 1.5 |

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施工参数

**Application data**

施工方法：推荐采用无气喷涂，不推荐采用空气喷涂，刷涂和滚涂仅推荐用于预涂、小面积涂装或修补。

**Application methods**: It is recommended to use airless spraying instead of air spraying. Brushing and rolling coating are only recommended for pre coating, small area coating or repair.

| 施工方法<br>Application method | 单　位<br>Unit | 高压无气喷涂<br>Airless spray | 刷涂/辊涂<br>Brush/roller |
|---|---|---|---|
| 喷枪孔径<br>Nozzle orifice | mm | 0.43～0.53 | —— |
| 喷涂压力<br>Nozzle pressure | $kg/cm^2$ | 150～200 | —— |
| 稀 释 量*<br>Thinner | % | 0～10 | 5～10 |

*稀释剂添加量取决于膜厚要求和施工条件

*Thinner usage depends on required thickness and application condition

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干燥/固化时间与覆涂间隔

**Drying/Curing and over coating Interval (@125** μm DFT)

| 底材表面温度（℃）<br>Substrate temperature（℃） | 5 | 15 | 25 | 35 |
|---|---|---|---|---|
| 表干（小时）<br>Surface dry（hrs） | 16 | 8 | 4 | 2 |
| 硬干（小时）<br>Dry to handle（hrs） | 48 | 24 | 12 | 6 |
| 最短覆涂间隔（小时）<br>Minimum over coating interval（hrs） | 48 | 24 | 12 | 6 |
| 最长覆涂间隔（天）<br>Maximum over coating interval (days) | 30 | | | |

注：以上数据都是在通风状况良好、典型膜厚、相对湿度≤75%的条件下测得数据，仅供参考。实际干燥时间及覆涂前的时间间隔可长可短，取决于漆膜厚度、通风状况、湿度、下层油漆、提前装卸需求和机械强度等因素的影响。涂层完全固化后，才能处于浸渍环境。

**Notice:**

Above are typical data based on good ventilation, typical film thickness and relative humidity ≤75%, just for reference only. Real drying time base on impact of over coating interval, film thickness, ventilation, humidity, undercoat, ahead of loading and unloading and mechanical requirement etc. Immersion only allowed after full cure but only for short

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term or splashing.

过多添加稀释剂通常会导致湿膜的抗流挂性能降低及固化速度减慢。
Adding too much thinner results in sag resistance reduction and slower cure.

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典型油漆配套
**Typical coating system**

- 前道：经认可的底漆上
- **Previous coat**：On approved primer
- 后道：自身覆涂或经认可的面漆
- **Next coat**：Self applied or approved topcoat
- 具体向无锡华东锌盾科技有限公司咨询
- For details, please consult ZINDN company.

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## 包装、储存与有效期
## Package, storage and shelf life

包装规格
**package size**

| 组份<br>components | A（主料） | B（固化剂） |
|---|---|---|
| 包装桶规格<br>Container size | 20 升<br>20L | 5 升<br>5L |
| 包装量（重量）<br>Package size(weight) | 25 公斤<br>25Kg | 3 公斤<br>3 Kg |

闪点：>31℃（混合物）
**Flash Point**: >31 ℃(Mixed)

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储存条件
**Storage condition**

- 须按照国家规定储存。储存环境应干燥、阴凉、通风良好并避开热源和火源。包装容器必须保持密闭。
- Must follow national rules. Should be dry, cool, good ventilation and away heat and fire. The container should be well sealed.

储存有效期
**Shelf life**

- 良好储存条件下的储存有效期为 1 年。此后需检验合格后使用
- Shelf life：1 year at good storage condition. After this period, the product must be inspected and approved prior to use.

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## 健康、安全与环境保护
## Health, safety and environment

- 本品含有易燃物，施工现场安全应符合有关国家或当地政府规定。请注意包装上的安全标签并阅读产品安全数据手册（MSDS）。
- 避免吸入溶剂蒸气和漆雾，避免油漆接触皮肤和眼睛，严禁吞服本产品，采取必要的预防和防护措施防火、防爆和保护环境。需在通风良好的情况下使用本品。在狭窄处或空气不流通处施工，必须提供强力通风。
- 废弃物处理必须符合有关国家或当地政府规定。
- This product contains flammable components; the application site has to meet national safety and local government requirement. More details please read and follow material safety data sheet (MSDS)
- Avoid solvent vapor and paint mist, avoid contacting skin and eyes, forbidden swallowing, must have necessary to have prevention and protection for fire, exploration and environment protection solutions. Application under good ventilation, provide sufficient ventilation when in narrow space and in non-good air flow.
- Waste treatment has to follow national and local government requirement.

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## 声　　明
## Declare

本产品资料及数据是根据我们的试验和实际使用中的经验而积累的，可作为施工指南，但由于产品的使用通常在我们的控制范围之外，所以我们只提供产品本身质量的保证。我公司保留不预先通知而根据产品的不断改进而进行修改的权利。

The product documents and data based our experiments and application experience, use for application instruction. The application condition is usually out of our control; we only warrant product quality itself. **ZINDN** keeps the authority to modify for improvement without pre-notification to customers.

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## 版本信息
## Version

修改于 2026 年 1 月，本说明书取代以前的版本,如有其它语言，最终以中文为准。

Revised in January 2026, this version is instead of previous version. The other languages are subjected to Chinese technical data sheet

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