

Product Datasheet 产品说明书



Product name 产品名称

QP243 High Performance Water-based Epoxy Anti-corrosion Primer
QP243 高性能水性环氧防护底漆

Product description 产品描述

QP243 High Performance water-based epoxy anti-corrosion primer consists of epoxy resin, additives, pigment and deionized water etc. After curing, QP243 forms a tough film and provides excellent corrosion resistance. The safety and easy-to-apply of QP 243 shall be the most outstanding characteristics which allow it being used in various steel structures, equipment and facilities where excellent anti-corrosion protection is required.

QP243 高性能水性环氧防护底漆是由环氧、水性助剂、颜填料和去离子水等组成。该产品固化后漆膜坚韧,可提供优异的防护性能,具有安全以及方便施工的特点,广泛应用于各种需要优异保护的钢结构及设备行业。

Product purpose 产品用途

It is recommended to be used on the surfaces of exposed metallic structures, industrial machinery and equipment surface in corrosive circumstances.

推荐用于暴露在腐蚀环境下的金属结构件、工业机械及设备表面。在经过磷化,镀锌,硅烷处理等的基材上也有良好的附着力及性能。

Product character 产品特性

- ❑ Excellent anti-corrosion performance and chemical resistance
优异的防腐蚀性 & 防化学品性
- ❑ High crosslinking density, strong resistance to solvent
交联密度高,耐介质性能好
- ❑ strong resistance to hot water
优异的耐热水性
- ❑ Outstanding anti-flash rust performance
优异的抗闪锈性能
- ❑ Excellent resistance to acid and alkali
优异的耐酸碱性
- ❑ Low VOC emission and low odor
VOC 含量低、施工气味小
- ❑ Recommended dry film thickness: 30-60μm/coat
推荐干膜厚度: 30-60 微米/层

Related products 配套产品

- | | |
|------------------------------|-----------------|
| ❑ QH243-20 Hardener-Standard | QH243-20 固化剂-标准 |
| ❑ P859-1901 Thinner | P859-1901 稀释剂 |

Surface treatment 表面处理

■ Substrate treatment: steel (raw) without pockmark or indentation, sand blast to SSPC-SP6(Sa2); rusted or pockmarked surfaces, sand blast to SSPC-SP6(Sa2); as in immersion circumstance, the substrate should be sanded blasted to SSPC-SP10(Sa2.5); as in light corrosive circumstance, tools should be used to clean the surface to SSPC-SP3 and SSPC-SP11 or St3; achieve the surface roughness from 25 to 50 microns after sand blasting.

基材处理: 钢材(新)无麻坑或喷砂处理达到 SSPC-SP6 (Sa2); 生锈或有麻坑的表面, 喷砂处理达到 SSPC-SP10 (Sa2.5); 对于浸泡环境, 至少喷砂处理达到 SSPC-SP10 (Sa2.5); 对于轻度腐蚀环境, 可用动力工具清洁至 SSPC-SP3 和 SSPC-SP11 或 St3 标准; 喷砂后粗糙度范围建议在 25-50 微米。

■ Prior to painting, surface must be clean, dry, undamaged and free of all contaminants, including salt deposits.

表面必须将锈、油污等污染物, 包括盐分等处理干净, 表面处理的越干净, 越有利于漆膜性能的发挥。

Application process 施工流程

Application methods 施工方法	Air spray 空气喷涂
Volume Solid 体积固体含量	40%±3
Mixing ratio(w/w) 混合比例 (重量)	5 : 1
Thinning ratio 稀释比例	10-15%
Spraying Viscosity(DIN4/25 °C) 喷涂粘度(DIN4/25 °C)	30-50s
Spraying nozzle(mm) 喷涂口径 (毫米)	1.5~2.0
Spraying pressure(Mpa) 喷涂压力 (Mpa)	0.3~0.5
Drying time 干燥时间	Baking condition: 30-60mins/(50~80°C) 强制干燥: 30-60 分钟 (50~80°C) Touch dry(23°C, 50%RH): 30min 表干时间(23°C, 50%RH): 30min Through dry(23°C, 50%RH): 24hours 实干时间(23°C, 50%RH): 24 小时

Important notes 注意事项:

- During application and drying, environment temperature is highly recommended to be above 10 °C, relative humidity should be lower than 70%, substrate temperature should be 5°C higher than dew point and good ventilation. Avoid applying at cold night especially in the season when there is condensation or rain outside.

施工及干燥期间, 建议环境温度在 10°C 以上, 相对湿度低于 70%, 底材温度应高于露点 5°C 以上, 并保证良好的通风。避免在夜晚温度较低尤其是在兼有凝露或雨水的季节户外施工。

- Water cannot release easily if water borne primer is sprayed too thick which can lead to blistering problems etc. Therefore, the first coat should be allowed to tack up before apply the second

水性漆一次涂装过厚时, 水分很难从漆膜中挥发出来, 需等第一道漆膜实干后 (70°C 烘烤 60 分

钟或 23°C, 50%RH 时放置 24 小时) 才能进行下一道水性漆的涂装。

- ❑ As existing strong edge effects for water borne coating, sanding corners and edges and precoats to prevent corrosion.

由于水性涂料很容易从尖锐边角流开形成“边角效应”为保护边角免遭腐蚀, 需磨平边角及预涂。

- ❑ Mechanical agitation of base and hardener separately is highly recommended.

在调配前, 建议先用机械搅拌把漆及固化剂分别搅拌至均匀状态。

- ❑ After mix base and hardener, mechanical agitation is strongly recommended. Any mixing with un-uniform cure will lead to slow drying or non-curing.

调漆时, 加入固化剂后, 建议用机械搅拌将漆和固化剂混合均匀, 不均匀的固化剂搅拌, 可能会影响水性漆的防腐性能及干燥时间。

- ❑ After mixing completely, 15min of setting is necessary which allows coating defoaming.

水性漆搅拌均匀后应静置 15 分钟, 让水性漆充分熟化及消泡。

- ❑ Pot life is 2 hours.

漆和固化剂混合后可使用时间为 2 个小时。

- ❑ Good ventilation helps water evaporation and if relative humidity is higher 60% or temperature is lower than 10°C, the drying time will be longer.

良好的通风有助于水分的挥发, 当环境湿度高于 60%或温度低于 10°C 时, 漆膜的干燥时间会相应延长。

- ❑ Please keep the product in cool, dry, well ventilated place. Do not store above 35°C and below 5°C.

请储存在阴凉及干燥通风良好处。储存温度应低于 35 °C 并高于 5°C。



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