

Product Datasheet 产品说明书

Product name 产品名称

LP143 Fast-dry multi-purpose Epoxy Primer Series 快干多功能底漆系列

Product description 产品描述

LP143 Fast-dry multi-purpose Epoxy Primer Series forms a tough, abrasion resistant film which bonds strongly to steel and inorganic zinc surfaces. Rapid drying, even in low temperature, permits early movement of painted objects when LP143 series is used as a shop primer for new objects by fabricators. Applies readily by spray can produce a smooth film. It will accept epoxy and acrylic modified aliphatic polyurethane topcoats. Rust inhibitive pigment added could improve the rust creeping resistance under film.

LP143 快干多功能环氧底漆系列可形成坚韧、耐磨的涂层，并对钢铁和无机锌涂层具有非常好的附着力。防锈颜料的加入增加了产品的阻锈性能。其快干的特点使其即使在低温下也允许制作单位可以提高工作效率。喷涂后的漆膜光滑、平整，可再涂环氧和脂肪族丙烯酸聚氨酯面漆。

Product purpose 产品用途

Used as shop primer/tie coat for steel structure, equipment where need a good protection such as industry and sea.

作为底漆/中间漆，可广泛应用于工业及海洋环境需要优异保护的钢结构和设备。

Product character 产品特性

- ❑ Versatile shop applied primer
全方位的车间施工底漆
- ❑ Application over wide range of temperature from -7°C to 60°C
非常宽的施工温度: -7°C - 60°C
- ❑ Outstanding resistance to chemical and severe weathering with proper topcoat
当复涂合适的面漆后，可提供出色的抗化学品及老化性能
- ❑ Excellent adhesion to well prepared bare steel and self-priming with high build film
对碳钢基层有优异的附着性，自身打底厚浆型产品
- ❑ No lead pigments added
使用无铅颜料
- ❑ Suitable for immersion in fresh and salt water with two coats @ TDFT 300µm
在总干膜厚度 300 微米的情况下，适用于淡水和海水浸泡
- ❑ Easy applied by airless and conventional air sprayer
简易的施工性，适合无气和常规空气喷涂
- ❑ Recommended dry film thickness: 50-150µm
推荐干膜厚度: 50-150 微米
- ❑ Theoretical spreading rate @ DFT 100µm: 6.6m²/L
理论涂布率 (100 微米干膜厚度): 6.6m²/L
- ❑ VOC: 300g/l (2.5 lb/gal)
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Related products 配套产品

- | | |
|------------------------------|-----------------|
| ☐ LH143-20 Hardener-Standard | LH143-20 固化剂-标准 |
| ☐ LN141-20 Thinner-Standard | LN141-20 稀释剂-标准 |
| ☐ LN141-10 Thinner-Slow | LN141-10 稀释剂-慢干 |

Surface treatment 表面处理

☐ Coating performance is proportional to the degrees of surface preparation. Prior to coating, surface must be clean, dry, undamaged and free of all contaminants, including salt deposits. Round off all rough welds and sharp edges, remove all weld patterns.

涂层的最终性能与表面处理的程度成正比。表面必须清洁、干燥、无任何污染物，包括盐分等。对所有锐边和焊缝进行倒圆，打磨除去焊接飞溅物。

☐ Steel: New, without pits or depressions, blast SSPC-SP6 (Sa2). Previously painted or pitted steel, blast SSPC-SP10 (Sa2.5). For mild exposures, power toll clean SSPC-SP3/11 (St3) is acceptable. Blast to achieve 25-50 microns. Apply the primer as soon as possible to prevent the flash rusting on blasted and clean steel surface

钢材：新，无麻坑或压痕，喷砂处理达 SSPC-SP6 (Sa2)；生锈和有麻坑的表面，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。喷砂后表面粗糙度范围建议在 25~50 微米。处理好的清洁表面要尽快施工底漆以防止出现闪锈。

Application process 施工流程

Application methods 施工方法	Conventional air spray 手工喷涂	Airless spray 无气喷涂	
Volume Solid 体积固体含量	66%±3		
Mixing ratio(V/V) 混合比例 (体积)	4/1		
Thinner 稀释剂	LN141-10 (>25°C) /-20 (<25°C)		
Thinning ratio 稀释比例	8-18%	0-6%	
Pot life 混合使用时间(21°C)	4 hours 4 小时		
Spraying distance (cm) 喷涂距离 (厘米)	25~30	30~50	
Spraying nozzle (mm) 喷涂口径 (毫米)	1.4~1.6	0.42~0.53	
Pressure 喷涂压力 (Mpa)	0.4~0.6	15~18	
Flash-off 层闪时间	5~10min	5~10 分钟	
Flow time 流平时间	10~15min	10~15 分钟	
Drying time 干燥时间		21°C	
	Touch dry/指触干	60min/分钟	10°C
	Through/实干	200min/分钟	1.5hour/小时
	Overcoating(Min.)/最短再涂间隔	3.5hour/小时	4.5Hour/小时 (V-pro)
	Overcoating(Min.)/最短再涂间隔	1.0hour/小时	2Hour/小时 (LT160)
Oven dry/低温烘烤	70°C, 45 min/分钟		

Important notes 注意事项:

- ☐ Apply a wet coat in even, parallel passes; overlap each pass 50 percent to avoid holidays, bare areas and pinholes. If required, cross spray at right angles to first pass.

应平行、均匀的喷涂, 并保证 50% 的压枪以保证避免出现针孔、漏涂等。如果需要, 可在垂直方向再喷涂一次。

- ☐ Drying times are dependent on air and surface temperatures as well as film thickness, ventilation and relative humidity. The minimum recoating time is highly dependent upon actual surface temperatures – not simply ambient air temperatures, as well as the maximum recoating time. For industry use, an oven heating dry process will be strongly recommended after the flash-off period to get a better curing.

干燥时间与环境温度、基层温度、通风条件和相对湿度有关。最小再涂间隔和最长再涂间隔更大程度上与实际基层温度相关。当应用于工业生产时, 低温烘烤工艺建议使用以得到预期的干燥和固化速度。



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