LIGHT INDUSTRIAL COATINGS

Product Datasheet 产品说明书

Product name 产品名称

LT140 ST VOC Compliant HS Epoxy Series 高固体环氧涂料系列

Product description 产品描述

LT140’s low solvent level meets VOC requirements, reduces the chances for film pinhole and solvent entrapment at the substrate-coating interface which is often a major cause of coating failure with conventional epoxies and lower solids systems. LT140 is available in a variety of colors, and therefore does not require a topcoat for internal usage. Appling readily by spray can produce a smooth film and higher dry film thickness to 200um with airless spray. It will accept acrylic modified aliphatic polyurethane topcoats for the external usage. MIO version is available also. Surface tolerant to damp or intact rusted surface would allow the best benefit for maintenance. Glass-flake could be added to improve the heat resistance performance (up to 232ºC) and anti-wearing. Non-slippery surface could be available if anti-slip additive added. Semi-gloss is available（40-70%）.

LT140 高固体环氧涂料系列可满足低 VOC 需求，减少常规环氧和低固系统易引起的漆膜针孔、溶剂滞留问题。LT140 颜色丰富，室内无需喷涂面漆。喷涂后的漆膜光滑、平整，通过无气喷涂可以达到 200um 乃至更高的膜厚。它可再涂环氧和脂族丙烯酸聚氨酯面漆。亦有云母氧化铁配方。低表面处理的性能在维修项目中可以提供最大限度的“带锈涂装”。加入玻璃鳞片后可增加产品的耐热性 (232ºC) 和抗撕拉性。加入防滑砂后可得到防滑系统。光泽为半光（40-70%）。

Product purpose 产品用途

Used as primer/finish for steel structure, equipment where need a good protection (ISO 12944 C4/C5M-I environment). General flooring system for most industry.

可广泛应用于需要优异保护的钢结构和设备行业（ISO12944 C4/C5M-I 环境）。可作为通用工业地坪。

Product character 产品特性

- Versatile shop applied DTM coating in aggressive exposure (Aluminum version available), such as chemical plant (Acidic/Alkaline fumes and weather), food plant, power plant and tanks
  应用于恶劣环境下的全方位的施工底面合一油漆(可提供含铝粉产品),如化工厂(酸性/碱性气体和环境)、食品厂、电厂和储罐
- Recoat in 3 hours at 21℃ and low temperature cure down to -10℃ with fast dry cure
  当使用快干固化剂时，21℃时 3 小时内可重涂，在-10℃时可低温固化
- Self priming topcoat over most existing coatings and accept most topcoat
  底面合一，可施工在大多数已有涂层上，同时对大部分面漆兼容
- Excellent coating thermal conductivity according to ASTM E1530: 0.48 W/(m*K)
  优异的涂层热导性：0.48 W/(m*K)（ASTM E1530）
- May be applied to surface as hot as 121ºC
  可施工在高达 120ºC 的热表面
- Up to 20 mils (500um) in one coat when reinforced with glass-flake

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当用玻璃鳞片增强时，单涂层一次可施工至 500 微米

- Suitable for sea water immersion including the splash and tidal zone when reinforced with glass-flake
  当用玻璃鳞片增强时，涂层具有非常优异的耐海水浸泡性，包括腐蚀最为严重的喷溅区和潮差区
- Meet all existing VOC regulations, USDA (Incidental Food Contact) and NSF 61 standard (Drinking Water Contact)
  满足目前所有 VOC 法则、USDA（偶然接触食品）和 NSF 61 标准（饮用水接触）
- Higher film thickness to 200um can be obtained by airless spray
  无气喷涂可以达到 200 um 的高膜厚
- VOC: 180 g/L (1.5 lbs/gal).
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Related products 配套产品

LH140-20 Hardener-Standard	LH140-20 固化剂-标准
LH140-30 Hardener-Fast	LH140-30 固化剂-快干
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。
- Concrete: Clean concrete surface. Abrasive blasting to remove all laitance and contamination on the surface. Water content of the surface should be checked. Fill the small void and holes is necessary before apply the LT140.
  混凝土：清洁混凝土表面。喷砂除去表面的浮浆和所有的污染物。检查表面的含水率。建议在施工 LT140 前填补混凝土施工过程中遗留的气孔和空洞等缺陷。
- Galvanized steel: New, remove any oil or grease with P850-1367, light sweep blasting with fine and Non-Ferrous abrasive is preferred. Weathered, remove any zinc salt with mechanical grinding, clean with P850-14/1402.
  镀锌结构：新，用 P850-1367 清洁剂进行除油，用细的/非铁质磨料进行扫砂处理。老化的镀锌层，机械打磨去除所有锌盐，然后用 P850-14/1402 清洁剂清洗。
- Aluminum: remove any oil or grease with P850-1367, light sweep blasting with fine and Non-Ferrous abrasive is preferred.
  铝材：用 P850-1367 清洁剂进行除油，用细的/非铁质磨料进行扫砂处理。

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- Stainless steel: remove any oil or grease with P850-1367, sweep blasting with fine abrasive and Non-Ferrous is preferred.
  不锈钢：用 P850-1367 清洁剂进行除油，用细的/非铁质磨料进行扫砂处理。

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	83%±3	
Mixing ratio(V/V) 混合比例（体积）	1/1	
Thinner 稀释剂	LN141-10（>29℃）/LN141-20（≤29℃）	
Thinning ratio 稀释比例	20-25%	3-8%
Pot life 混合使用时间(21℃)	2.5 H(standard)/1H(fast dry) 2.5 小时（标准）/1 小时（快干）	
Spraying distance （cm） 喷涂距离（cm/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 (21°C)	20-30min 20~30 分钟（Standard/标准固化剂，LH140-20） 5~10min 5~10 分钟（Fast Dry/快干固化剂，LH140-30）	
Flow time 流平时间	10~15min 10~15 分钟	
Drying time 干燥时间 (21°C)	Standard/标准 / FD/快干 Touch dry/指触干 9Hour/小时 2Hour/小时 Through/实干 20Hour/小时 4.5Hour/小时 Overcoating(Min.)/最短再涂间隔 16Hour/小时 3Hour/小时	

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。
- LT140 may be applied to surface as hot as 121°C. When applying LT 140 to surface between 50°C to 121°C, thin LN141-10 slow dry thinner with 6-12% mixing ratio depending on actual condition. Multiple passes may be required to achieve film build and to avoid solvent blistering..
  LT140 可施工在最高达 121°C 的热表面。当表面温度在 50°C 至 120°C 之间时，LT140 应采用 LN141-10 慢干稀释剂，添加比例为 6-12%或根据实际施工情况。同时，采用多层施工的工艺即保证系统的厚度，也可以避免产品溶剂泡。
- At temperature above 200°F(93°C), dry film thickness must not exceed 10 mils(250um).
  当温度高于 200°F（93°C）时，系统的最高膜厚不建议超过 10mils（250um）。
- Fast dry cure is strongly recommended for quick application handling or low temperature application (≤15°C).
  当需要快速施工或进行低温施工（T≤15oC）时，建议使用快干固化剂 LH140-30。
- Mechanically agitating of the curing before paint mixing will be recommended strongly. Any mixing with un-uniform cure will lead to slow drying or non-curing.
  在调配前，建议先机械搅拌固化剂至均匀状态。不均匀的固化剂搅拌，可能延长油漆的干燥和固化。
- When applying the LT 140 with glass-flake, 45:1 pump or larger will be recommended with surge tank and spray gun filters removed. The tip of spraying gun should be at least 0.027-inch and preferred 0.035-inch. The mixing ratio is mix full kits

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only.

当施工玻璃鳞片增强的 LT140 高固态环氧涂料时，建议采用 45:1 或者更大比例的无气压缩泵，并将喷枪和吸漆管的过滤网拆去。喷嘴尺寸最小应达到 0.027”，最佳的在 0.035”。调配比例按照包装桶整桶使用。

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的死亡或人员伤害除外)。

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