



产 品 说 明 书
Product Instruction

产品名称：

三防漆

Product Name:

Conformal Coating

产品型号：

M788-1

Product Model:

M788-1

厂商名称：珠海长先新材料科技股份有限公司

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M788-1 三防漆

M788-1 Conformal Coating

产品描述:

Product Overview:

M788-1 是一款单组分改性丙烯酸三防漆。本品不含芳烃溶剂，气味低，安全环保。固化后的膜层透明、光亮，具有良好的防潮、防尘、防硫化、柔韧性、耐候性和电气性能。本品含荧光剂，便于使用紫外灯进行涂覆检测。

本品可常温自干，也可通过加热烘烤加快干燥。

本品符合 RoHS、REACH 及无卤等环保要求。

M788-1 is a single-component modified acrylic conformal coating. It contains no aromatic hydrocarbon solvents and features low odor for safer, more environmentally responsible handling. After curing, it forms a transparent, glossy film with good moisture resistance, dust protection, sulfidation resistance, flexibility, weather resistance, and electrical properties. The product contains a fluorescent tracer for inspection under ultraviolet light.

M788-1 can air-dry at room temperature, while heating can be used to accelerate drying.

The product complies with RoHS, REACH, and halogen-free environmental requirements.

性能指标:

Performance Specifications:

- 外观：无色透明液体
- 固含量：28.5 ± 2%
- 比重：0.86 ± 0.02
- 粘度（涂-4 杯，s）：12-18
- 闪点：12° C
- 室温干燥时间：表干 ≤30 min；实干 24 h
- 80° C 干燥时间：表干 3-10 min；实干 2-3 h
- 室温达到最佳性能时间：7 天
- 配套稀释剂：X-08
- 固化后性能：
- 膜层：透明
- 吸水率：≤1.5%
- 附着力：0-2 级
- 介质耐压：>1,500 V
- 绝缘阻抗：>5 × 10¹² Ω
- 防潮性能：>1 × 10⁹ Ω
- 中性盐雾试验：无腐蚀
- 温度冲击：通过
- 霉菌测试：0 级
- 耐硫化试验：通过
- 适用温度：-20° C 至+120° C
- 注：以上固化后数据均为在 25° C、相对湿度 50 ± 5%的条件下固化 7 天后所得，仅供参考。使用前，客户应根据自身产品及工艺要求进行适用性测试。

- Appearance: Colorless transparent liquid
- Solids Content: $28.5 \pm 2\%$
- Specific Gravity: 0.86 ± 0.02
- Viscosity (Tu-4 cup, s): 12-18
- Flash Point: 12°C
- Drying Time at Room Temperature: Touch dry: ≤ 30 minutes; Fully dry: 24 hours
- Drying Time at 80°C: Touch dry: 3-10 minutes; Fully dry: 2-3 hours
- Time to Reach Optimum Properties at Room Temperature: 7 days
- Recommended Thinner: X-08
- Properties After Curing:
- Film Appearance: Transparent
- Water Absorption: $\leq 1.5\%$
- Adhesion: Grade 0-2
- Dielectric Withstand Voltage: $>1,500$ V
- Insulation Resistance: $>5 \times 10^{12} \Omega$
- Moisture Resistance: $>1 \times 10^9 \Omega$
- Neutral Salt Spray Test: No corrosion
- Thermal Shock: PASS
- Mold Resistance: Grade 0
- Sulfidation Resistance: PASS
- Service Temperature Range: -20°C to +120°C
- Note: The above cured-film data were obtained after curing for 7 days at 25°C and $50 \pm 5\%$ relative humidity. The values are provided for reference only. Before use, customers should verify suitability according to their specific product and process requirements.

使用工艺:

Application Procedure:

- 1、线路板清洁：一般情况下不需要特别清洗，但必须确保涂覆表面干燥、洁净，无油污及其他杂质。
 - 2、用户可根据施工工艺要求，使用配套稀释剂调节工作粘度和漆膜厚度，以获得适合自身工艺的效果。
 - 3、使用过程中应保持容器密闭。不可使用吹风设备直接对着敞口容器吹，以免溶剂挥发过快或漆膜表面发白。
 - 4、烘烤温度应根据元器件的耐温能力和生产工艺设定，上限为 100° C。产品刚出炉时不要立即触摸，以免烫伤或损坏膜层，应待其冷却后再进行操作。
 - 5、长时间停用时，应清洗管道和喷嘴，并将三防漆从敞口容器中倒出后密封保存。已使用的三防漆不得倒回原包装桶中。
 - 6、使用过的容器、管道和喷嘴可使用配套稀释剂清洗。
1. PCB Cleaning: Special cleaning is generally not required, but the coating surface must be dry, clean, and free of oil and other contaminants.
 2. Adjust the working viscosity and film thickness with the recommended thinner as required by the selected application process.
 3. Keep the container closed during use. Do not direct blowing equipment at an open container, as rapid solvent evaporation may affect application or cause whitening of the coating surface.
 4. Set the baking temperature according to the temperature resistance of the components and the production process. The maximum recommended temperature is 100°C. Do not touch the product immediately after baking; allow it to cool to avoid burns or damage to the coating film.
 5. Before an extended shutdown, clean the pipelines and nozzles and transfer the coating from any open container

into a sealed container. Do not return used coating to the original container.

6. Used containers, pipelines, and nozzles may be cleaned with the recommended thinner.

包装、储运及保质期:

Packaging, Storage, Transportation and Shelf Life:

- 包装:

4 L/罐; 20 L/桶。

- 储运:

本品为易燃化学品。请远离火源和热源, 按相关法规搬运, 并储存于阴凉、避光、干燥处。

- 保质期:

密闭保存, 在 5-25° C 条件下保质期为 6 个月。

- Packaging:

4 L pail; 20 L drum.

- Storage and Transportation:

This product is flammable. Keep away from ignition sources and heat. Handle in accordance with applicable regulations and store in a cool, dry place protected from light.

- Shelf Life:

Six months when stored in sealed containers at 5-25° C.

安全操作须知:

Safe Handling Instructions:

本品易燃, 应远离明火和火花。避免吸入蒸气, 避免接触皮肤和眼睛。一旦接触, 应立即用水冲洗。操作前请阅读本产品的化学品安全说明书 (MSDS), 该文件可向本公司业务专员索取。

This product is flammable. Keep away from open flames and sparks. Avoid inhaling vapors and avoid contact with skin and eyes. In case of contact, rinse immediately with water. Before use, read the Material Safety Data Sheet (MSDS), which is available from our sales representative.

温馨提示:

Please Note:

- 由于我们的产品会持续优化和改进, 本手册中的相关信息可能会根据实际情况进行调整, 不另行通知。如需获取最新版本或了解更多信息, 欢迎随时联系我们的销售团队。
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