

MCOTI PW 2501 Series Solvent-Free Conformal Coating

Innovative adhesive solutions

MCOTI PW 2501 series is a single-component, dual-cure conformal coating with varying viscosities, designed specifically for protecting circuit boards. It cures under both UV light and moisture. This solvent-free product has low odor, low curing energy, fast curing speed, and is economical and environmentally friendly, suitable for various spraying processes. The PW 2501 series offers excellent moisture resistance, anti-yellowing properties, and chemical resistance.

Applications

Ideal for automotive electronics, new energy vehicles, consumer electronics, and industrial applications, providing excellent protection for electronic circuit boards.

MCOTO PW 2501 series Product Features

Reliability

- CTI \geq 600V, IEC 60112:2020
- High resistance to corrosive gases
- Protection against dust, moisture, harsh liquids, and gases
- Low water absorption \leq 0.13%, GB/T 1738-1979

Safety and Sustainability

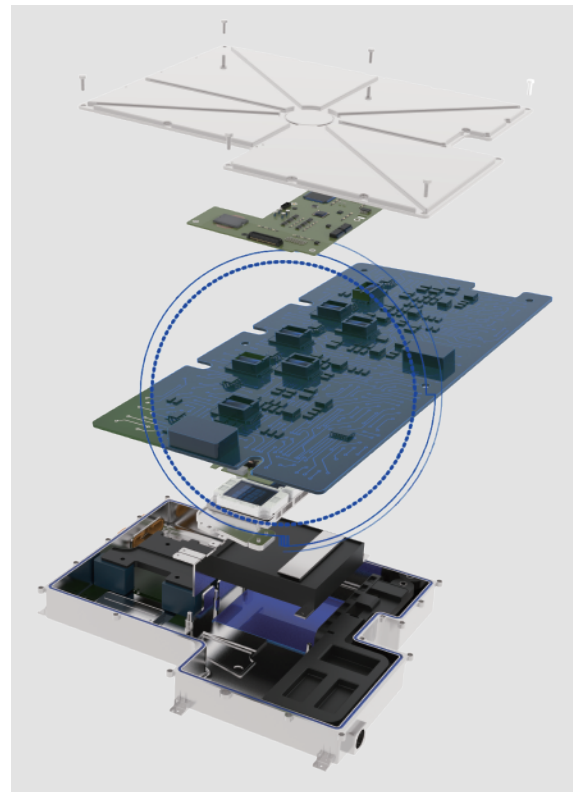
- UL 94 V-0 to prevent catastrophic failures
- Complies with VOC, RoHS, and HF standards
- Dual UV and moisture curing mechanism reduces energy consumption compared to traditional thermal-cure conformal coatings

Process and Performance

- UV curing with rheological properties for uniform coverage
- High dielectric strength up to 15 kV/mm
- Outstanding surface insulation resistance (SIR): 2.0×10^{14} Ohms

Cost Efficiency

- Lower material usage compared to solvent-based coatings
- Compatible with various spraying processes, ensuring high production efficiency



美科泰PW 2501系列 不含溶剂型三防漆

创新的胶黏剂解决方案

美科泰PW 2501系列是一款专门为保护电路板设计的不同粘度、单组份、紫外光与湿气双重固化三防漆。该产品不含溶剂、气味低、固化能量低、固化速度快、经济环保,适用于各种喷涂工艺。PW 2501系列具有优异的防潮性、耐黄变性和抗化学性能等。

UV+湿气固化三防漆是一种先进的电子涂敷材料,它结合了紫外光固化和湿气固化的双重优势,为电子设备提供高效、全面的保护。这种三防漆不仅具有快速固化的特点,还能确保在复杂环境下实现完全固化,为电路板、电子元器件等提供持久的防护。

适用于车载、新能源汽车、消费类电子、工业等,对电子电路板具有优异的保护作用。

美科泰N-PU 5200/PW 2501产品特点

主要特性

可靠性

- CTI \geq 600V, IEC 60112:2020
- 高抗腐蚀性气体性能
- 抵御灰尘、湿气及恶劣液体与气体的侵害
- 低吸水性 \leq 0.13%, GB/T 1738-1979

安全性与可持续性

- UL 94 V-0 阻燃等级,防止灾难性失效
- 符合 VOC, RoHS, HF标准
- UV 和湿气双固化机制,能耗较传统热固化三防漆更低

工艺与性能

- UV 固化,流平性好,确保均匀覆盖
- 介电强度高达 15 kV/mm
- 表面绝缘电阻 (SIR) 性能优异, 2.0×10^{14} Ohms

成本效益

- 材料使用量比溶剂型材料更少
- 适用多种喷涂工艺,生产效率高

