

COVEN FP312704

Electronic Grade Coating

COVEN FP312704 is an electronic grade coating protective agent that utilizes a fluoropolymer protective formula with hydrofluoroether as a solvent. Designed for safeguarding printed circuit boards and electronic components against moisture and corrosion, this solution swiftly creates a thin film post-application, boasting exceptional hydrophobic and oil-repellent properties. Its application is hassle-free as it does not necessitate an additional curing process, ensuring easy application, removal, and repair. The solvents and polymers in COVEN FP312704 are environmentally friendly substances that do not harm the ozone layer and adhere to RoHS requirements. Additionally, the polymer contains an orange-yellow dye group that fluoresces under blue or ultraviolet light, aiding in coating detection and quality control during production processes.

FEATURE

- This product offers exceptional user-friendliness, quickly forming a film without requiring additional curing processes.
- Utilizing cleaning agents enables effortless rework.
- The coating is easily detectable under blue light or ultraviolet radiation, facilitating quality control.
- It boasts excellent thermoelectric stability and insulation properties, along with high weather resistance and flexibility.
- Furthermore, it can be folded and is superhydrophobic.

CHARACTERISTICS

CHARACTERISTICS	COVEN FP312704
Color	Colorless
Solid Content, fluoropolymer	4wt%
Density	1.6g/mL
Flash point	None
Coating thickness	0.2µm
Tg (glass transition temperature)	46.8°C
Heat resistance of dry film	175°C 24 hours

APPLICATIONS

- Can be used for anti-stick coatings, LCD displays, micro motors or MEMS (microelectromechanical systems) components
- Can be used for anti-migration coatings, displays, spindle motors or to lubricate electronic components
- Can be used for moisture-proof and anti-corrosion coatings on various materials and components.

STORAGE AND TRANSPORTATION

To maintain the quality of this product, it should be kept in a clean, dry, and well-ventilated area. To prevent thermal breakdown, do not expose the coating solution or the dry fluorochemical polymer film to temperatures exceeding 150 C (302 F). Storage temperature should be between 16-27 C (60-80 F) with humidity below 60% in the original sealed container for a shelf life of 2 years from production date. It is classified as non-hazardous for shipping. During transportation, refrain from subjecting it to excessive vibration or stacking it upside down.

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SAFETY AND PRECAUTIONS

- 1) It is important to adhere to standard safety regulations for chemical handling and industrial hygiene, and avoid inhaling thermal decomposition by-products. Prevent skin contact with substances at high temperatures.
- 2) Refrain from consuming food, beverages, or smoking while using the product. Ensure thorough cleanup after use and prevent environmental contamination. Avoid contact with oxidizing agents like chlorine or chromic acid.
- 3) Refer to our Chemical Safety Technical Manual for guidance on using the product and follow the recommended precautions for chemical disposal.

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.