

SB3101

Electronic grade coating

SB3101 is a transparent hydrophobic and oleophobic ultrathin coating to protect electronics and other surfaces against moisture, corrosion, and other environmental conditions that could jeopardize the reliability of the device or surface. Adheres well to a wide variety of material substrates as plastic, glass, metal and ceramic. This product is formulated with a UV tracer for easy detection under UV light in order to support quality control.

FEATURE



PCB without coating



PCB with coating

- Exceptional repellence of all kinds of liquids
- Fast drying at room temperature (< 1 min)
- UV detection
- Provides simplicity of process, saving time
- No CMR substances
- Low environmental impact & very low VOC
- Non flammable

UNCURED PROPERTIES

Properties	SB3101
Chemical nature	Fluoropolymer
Color	Colorless, clear to slightly cloudy
Solid content	4% weight
Solvent type	Hydrofluoroether
Viscosity	1 cPs
Density (g/ml at 20°C)	1.4
Boiling point of solvent carrier	61 – 76°C
Flash point	None

CURING PROPERTIES

Tack-free time	< 1 min
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DIRECTION OF USE

The best process will depend on factors such as operating conditions, equipment, time and the cleanliness of the parts. Our team is pleased to advise you:

- Dipping/ spray application method is possible
- Typical coating thickness is about 0.2 microns
- Recommended to apply on cleaned and dried surfaces
- Touch dry within less than 1 minute without heat or UV cure
- Visible inspection under UV light (around 350 nm)

PACKAGING, STORAGE, AND SHELF LIFE

- Keep products in closed original packaging and store at room temperature
- Shelf life is 2 years from production date when kept in unopened and original packaging
- Standard packaging: 8 kg Drum

CURED PROPERTIES

Properties	SB3101
Appearance	Colourless
Surface energy (dynes/cm)	5 – 10
Contact angle ASTM D7334-08	120° water – 80° oil
Heat stability	150°C continuous - 250°C one hour
Solvent and chemical resistance	Excellent
Refractive index	1.35
Glass transition temperature	75°C
Dielectric strength	2.5 kV/ 25 um
Dielectric constant	2.25 @100KHz
Dissipation factor	0.016 @100KHz
Volume resistivity	4.5 x 10 ¹⁵ Ohm.cm

CAUTION

Contains no Reach Substances (on Candidate list, Annex XIV & XVII) / Contains no persistent organic pollutant (EC850/2004) / Contains no Import/Export Hazardous substances (EU 649/2012).

- Non-ozone depleting
- Non-flammable
- No chlorine, no bromine
- PFOS and PFOA-free
- Extremely low VOC
- RoHS compliant

For specific information on this product, consult the Material Safety Data Sheet.