Overcoat Pen

multicomp PRO

RoHS Compliant



Description

This pen applies an acrylic coating that cures to a durable, flexible and smooth finish. It functions as both a solder resist and a conformal coating. It is easy to apply and can be handled in 10 minutes. It may be removed with appropriate strippers, or soldered through for repair or rework. This is used to repair scratches and chips in permanent solder masks, to touch up areas missed during conformal coating applications, or to repair conformal coating after replacing isolated components. It can also be used to protect conductive pen traces.

Features and Benefits

- Protects PCBs from solder drips
- Prevents shorting and arcing
- Protects electronics from moisture, corrosion, fungus, dirt, and static discharges
- Comes in a variety of colors—black, clear, green, and white
- No hazardous air pollutants—free of toluene, xylene and MEK

Cured Properties Without Colorants

| Resistivity | : 4.6 × 10¹⁴ Ω·cm |
|-----------------------------------|--------------------------|
| Dielectric Strength | : 1000 V/mil |
| Dielectric Withstand Voltage | : >1500 V |
| Insulation Resistance | : 1 × 10 ¹³ Ω |
| Moisture Insulation Resistance | : 1 × 10 ¹² Ω |
| Dielectric Constant @ 1 MHz | : 2.85 |
| Dissipation Factor @ 1 MHz | : 0.004 |
| Glass Transition Temperature (Tg) | : 27°C |
| CTE prior Tg | : 72 ppm/°C |
| Service Temperature Range | : -65°C to 125°C |

Usage Parameters

| Dry Time To Handle | : 10 min |
|------------------------------|----------------|
| Minimum Recoat Time | : 3 min |
| Recommended Film Thickness | : 25–75µm |
| Theoretical Coverage @ 25 µm | : ≤570 cm²/pen |

Uncured Properties Without Colorants

| Viscosity @ 25°C | : 100 cP |
|------------------|-------------|
| Density | : 0.92 g/mL |
| Percent Solids | : 30% |
| Shelf Life | : 5 y |
| Calculated VOC | : 654 g/L |

Cure Instructions

Application Instructions

- 1. Shake pen vigorously until ball moves freely inside.
- 2. Hold pen at an angle and depress tip against surface.
- 3. Draw pen across surface while gently squeezing barrel.
- 4. Let dry 10 min before handling or heat cure.
- 5. Replace cap and store tip-up after use.

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

multicomp PRO

Allow to dry at room temperature for 24 hours, or after letting

sit for 10 min, cure the coating in an oven for 1 h @ 65°C.

Overcoat Pen

multicomp PRO

Dip Coat

Use a Ford or Zahn cup to monitor the viscosity of the coating, as the solvent will evaporate over time.

- 1. Hang the PCB on a dipping arm.
- 2. Slowly lower the PCB into a tank and leave immersed in the coating for 2 min to allow penetration.
- 3. Slowly withdraw the PCB from the tank at a rate of approximately 6" per minute.
- 4. Let dry for 4 hours before applying additional coats or 40 minutes before heat cure.

Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 10 min, cure the coating in an oven for 1 h @ 65°C.

Storage and Handling

Store between -5 and 40°C in a dry area.

Part Number Table

| Description | Part Number |
|--------------------------|-------------|
| Overcoat Pen, Black, 5mL | MP014032 |

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

