

**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.

## 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.

## 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

## Storage and Handling

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

## Usage Parameters

Dry Time To Handle	: 10min
Minimum Recoat Time	: 3min
Recommended Film Thickness	: 25–75µm
Theoretical Coverage @ 25 µm	: ≤570cm <sup>2</sup> /pen

## Cured Properties

Resistivity	: 4.6 × 10 <sup>14</sup> Ωcm
Dielectric Strength	: 1000V/mil
Dielectric Withstand Voltage	: >1500V
Insulation Resistance	: 1 × 10 <sup>13</sup> Ω
Moisture Insulation Resistance	: 1 × 10 <sup>12</sup> Ω
Dielectric Constant @ 1 MHz	: 2.85
Dissipation Factor @ 1 MHz	: 0.004
Glass Transition Temperature (T <sub>g</sub> )	: 27°C
CTE prior T <sub>g</sub>	: 72 ppm/°C
Service Temperature Range	: -65 to 125°C

## Uncured Properties Without Colorants

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

## Part Number Table

Description	Part Number
Overcoat Pen, Green, 5mL	MP014778

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