

TECHNI-PRO

Product Data Sheet

Techni-Pro Overcoat Pen

TNP100216 (Black) & TNP100217 (Green)



Product Information

Techni-Pro's overcoat 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. Our pens are 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.

- Protects PCBs from solder drips
- Prevents shorting and arcing
- Protects electronics from moisture, corrosion, fungus, dirt and static discharges
- No hazardous air pollutants—free of toluene, xylene and MEK

General Specifications

Brand	Techni-Pro
Part Number(s)	TNP100216 Color: Black TNP100217 Color: Green
Resistivity	$4.6 \times 10^{14} \Omega \text{ cm}$
Dielectric Strength	1 000 V/mil
Dielectric Withstand Voltage	>1 500 V
Insulation Resistance	$1 \times 10^{13} \Omega$
Moisture Insulation Resistance	$1 \times 10^{12} \Omega$
Dielectric Constant @ 1 MHz	2.85
Dissipation Factor @ 1 MHz	0.004
Glass Transition Temperature (T _g)	27 °C
CTE prior T _g	72 ppm/°C
Service Temperature Range	-65-125 °C
Dry Time to Handle	10 min
Minimum Recoat Time	3 min
Recommended Film Thickness	25-75 μm
Theoretical Coverage @ 25 μm	$\leq 570 \text{ cm}^2/\text{pen}$
Viscosity @ 25 °C	100 cP
Density	0.92 g/mL
Percent Solids	30%
Shelf Life	5 y
Calculated VOC	654 g/L

Instructions

Clean the substrate with Isopropyl Alcohol so the surface is free of oils, dust, and other residues.

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.

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, away from sunlight.

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