

Polytid ARC-11A Acrylic Conformal Coating

CHEMISTRY

Single-part solvent-based acrylic resin coating with integrated UV tracer (365 nm) for easy quality inspection.

PRODUCT DESCRIPTION

Polytid ARC-11A is a high-performance, fast-drying acrylic conformal coating formulated to protect printed circuit boards (PCBA) from moisture, dust, chemicals, and electrical shorts. It is fully optimized for selective coating robotics, manual spraying, or brushing methods.

PROPERTIES & BENEFITS

- Industry-Grade Formulation:** Developed in alignment with high-reliability electronics requirements.
- Exceptional Dielectric Strength:** Prevents arcing and voltage breakdowns in high-density assemblies.
- Easy Reworkability:** Can be easily dissolved and removed locally with acetone or standard thinners for component repair.
- Rapid Curing:** Reaches tack-free state quickly at room temperature without requiring heat ovens.

CHEMICAL AND PHYSICAL PROPERTIES

Appearance	Clear, transparent liquid
Resin Base	Pure Acrylic
Viscosity (Brookfield @ 25°C)	30 - 40 cps
Solid Content (% by weight)	28% - 32%
Flash Point	12 °C (Closed Cup)
Density (@ 21°C)	0.92 g/cm³
UV Indicator	Yes (Strong blue/purple glow under 365 nm UV light)

CURING SCHEDULE

(Values at 25°C and 50% Relative Humidity)

Tack-Free Time	10 - 15 minutes
Full Cure	24 hours at room temperature (Can be accelerated to 30 minutes at 65°C)

PACKAGING OPTIONS

- 1 L Can
- 5 L Container
- 20 L Drum

STORAGE & STABILITY

The product must be stored in its original sealed container at temperatures between 15°C and 25°C in a well-ventilated, dry area. Keep away from direct sunlight, open flames, and heat sources.

Shelf life: 24 months (2 years) from the date of manufacture under proper storage conditions.

HAZARDOUS GOODS

- Flammable Liquid (Class 3)**
- Information regarding protective measures for handling, storage, toxicity, and safety is available in our Material Safety Data Sheet (MSDS).

APPLICATION GUIDELINES

1. **Cleaning:** Ensure the PCB surface is completely free of flux residues, oil, and moisture. Clean with Isopropyl Alcohol (IPA) and dry thoroughly before application.
2. **Masking:** Cover connectors, switches, and test points with Kapton tape or liquid peelable mask.
3. **Application:** Apply via automated selective spray, manual spray, or brush. If dilution is necessary, use standard acrylic thinners or acetone.