PD5220 is a screen printable, single component, fast curing modified epoxy coating used for circuit protection and identification. This cover coat, when properly cured, yields a chemically inert film which will not react with circuit components. PD5220 provides excellent adhesion to a variety of substrate materials.

**Key Benefits**

- REACH® and RoHS® compliant
- Screen printable
- Fast curing
- Yields a chemically inert film which will not react with circuit components
- Excellent resistance to SAC305 solder at 250 °C
- Excellent resistance to multiple solvents
- Available in Black, Blue and White

**Typical Properties**

- **Insulation Resistance:** \( \geq 1 \times 10^{10} \) ohms
- **Dielectric Breakdown Voltage:** > 1,000 volts/mil
- **Non-Volatile:** (1Hr @ 150 °C) 98.0 % ± 2.0 %
- **Viscosity:** 50 – 100 Kcps, Brookfield HBT, SC4-14 spindle and 6R utility cup @ 10 rpm, 25 °C
- **Dielectric Constant:**
  - Black: 12 – 14
  - Blue: 8 – 10
  - White: 11 – 13

**Recommended Processing Guidelines**

- **Printing:**
  - 280 mesh stainless steel screen
  - 0.5 mil emulsion
- **Curing:**
  - 30 – 60 minutes @ 150 °C
- **Cured Thickness:**
  - 20 – 30 microns per layer with 2 layers recommended totaling 40 – 60 microns
- **Thinner:**
  - RV-252
- **Warranty:**
  - Material guaranteed to meet specifications for 6 months from date of shipment

**Handling & Precautions:**

Use in a well-ventilated area.
Avoid contact with skin.
Wash with soap and water.

For cleanup of uncured epoxy material, a one-to-one mixture of Methyl Ethyl Ketone (MEK) and Toluene is recommended.

**Storage:**

REFRIGERATE at 5 °C – 10 °C to ensure proper performance of shelf life.
Allow paste to come to room temperature prior to opening.
Spatulate well before using, as settling may occur during storage.

**SPECIAL NOTE:**

Some of these materials may show resistance shifts due to thermal storage. Stability baking has been shown to minimize this behavior.
Technical Data Sheet

Epoxy Insulator

Legend:

1) REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (“REACH”) by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances (“RoHS”) and its subsequent amendments (including the exceptions related to Pb)