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DATA SHEET

16.2.25

PRODUCT NAME: **EP ANTISTATIC.**

Two-Component Epoxy Finish ANTI-STATIC Conductive Coating

Product code: EPA-9005ANT

PRODUCT DESCRIPTION

EP ANTISTATIC is a two-component epoxy conductive and anti-static coating formulated to provide controlled conductivity and strong adhesion to a wide range of substrates, including plastics and alloys. It offers excellent resistance to chemicals, abrasion, and humidity. The coating is particularly suited for environments requiring static dissipation.

FEATURES AND BENEFITS

- Conductive and anti-static properties with surface resistance of **10E5-10E8**.
- Excellent adhesion to composite and metal substrates.
- High chemical and abrasion resistance.
- Non-yellowing and non-chalking formulation.
- Provides protection against mild chemical splashes and water exposure.
- Can be applied using standard air spray and airless spray systems.
- Operates within a **temperature range of -56°C to 130°C** (cyclic conditions over 4 days).

TECHNICAL DATA *(Data for mixed product at 20°C)*

- **Surface Resistance: 10E5-10E8**
- **Density:** approx. **1.3 g/cm³** (depending on color).
- **Recommended Dry Film Thickness (DFT): 30-50 microns** (depending on system).
- **Theoretical Coverage: 6-8 m²/l for 40 microns thickness**.
- **Drying Time:**
  - **Dust Free: 10-25 min**
  - **Touch Dry: 10-25 min**
  - **Handling Dry: 24 hours**
  - **Full Cure: 7 days**
- **Shelf Life: 12 months** (temperature 5°C-45°C).
- **Compatible Substrates:** Brass, FR4, PC, ABS, PVC, steel, and aluminum.

SURFACE PREPARATION

- Surfaces should be **clean, dry, and free from contamination** before application.
- Can be applied over **existing epoxy or polyurethane primers** to enhance adhesion and durability.
- Substrate should be lightly roughened before application.
- During application and curing, ensure that the substrate temperature does not drop below **7°C** and remains free from moisture or ice.

MIXING AND APPLICATION

- **Mixing Ratio (by weight):**
  - **Part A:** 4 (EPA-9005ANT)
  - **Part B:** 1 (1130/C Hardener)
- **Thinner: MEK** (20%-30% dilution recommended).
- **Application Conditions:**
  - **Air Pressure: 3-4 bar**
  - **Nozzle Size: 1.3-1.6 mm**

RECOMMENDED APPLICATION METHODS

- **AIRLESS SPRAY:**
  - Recommended thinner: **MEK**
  - Thinner Volume: **20%-30%**
  - Nozzle Size: **1.3-1.6 mm**
  - Apply in smooth, even passes ensuring full coverage.
- **AIR SPRAY:**
  - Recommended thinner: **MEK**
  - Thinner Volume: **20%-30%**
  - Nozzle Size: **1.3-1.6 mm**
  - Apply with a 50% overlap for uniform coating.

PHYSICAL CHARACTERISTICS

- **Flexibility: 7-8 mm**
- **Impact Resistance: Passed impact test**

CLEANING PROCEDURE

- Clean all application equipment immediately after use with **approved epoxy thinner or solvent cleaner**.
- Do not allow material to dry inside spray equipment.

SAFETY AND HANDLING PRECAUTIONS

- Always wear **gloves, protective goggles, and a fresh air mask** during application.
- **Use only in well-ventilated areas** to prevent inhalation hazards.
- **Store away from open flames, sparks, and direct sunlight**.
- Read and understand the **Safety Data Sheet (SDS)** before use.
- If overexposed, seek **immediate medical attention**.

DISCLAIMER:
The user is responsible for ensuring the suitability of this product for the intended application. Performance characteristics and data provided are based on laboratory tests and practical experience, but actual results may vary. Pre-application testing is recommended.
