



POLYCHEM UV/EB INTERNATIONAL CORP.

Conductive and Transparent Polymer Coating



POLYCHEM #OC1313-A-C-(B) is a two-component waterborne high-performance conductive coating material with high transparency. It was developed by the latest conductive polymer technologies. POLYCHEM #OC1313-A-C-(B) can be applied to produce a transparent coating with low surface resistivity.

Features:

- 》 Waterborne
- 》 High Conductivity
- 》 High Transparency
- 》 Temperature Resistance
- 》 Cost Competitive to Replace Expensive ITO Coating
- 》 Superior durability of sliding resistance than ITO
- 》 Good IPA resistance
- 》 Enhanced Color Performance
- 》 Excellent Adhesion on PET, Polycarbonate, Glass and Many Substrates
- 》 Flexible, Bending and Abrasion Resistance

Physical Mixing Ratio for Component A and Component B (by weight):

1 (Component AB) : 1.50-1.55 (Component)

Physical Characteristics:

Appearance: Low Viscosity Light Bluish Liquid

Viscosity: 50~200 cps @25⁰C, #42 spindle, 30 rpm

Electric Resistivity: < 150 ohm/square @ 25 microns of wet film
< 400 ohm/sq @ 16 microns of wet film
(Resistivity is thickness dependence of coating)

Coating Methods:

Spin coating method, slot Coating method, roller coating, wire bar coating, etc.

Recommended Drying Conditions: Hot air 110- 130C for 7~10 minutes

Note: Drying conditions depend on the substrate's coating thickness, temperature, and thermal conductivity. Avoid drying the coating on the walls of the containers. The dried coating is not dispersible in the wet coating again and may reduce the optical and conductive properties.

Incompatible Materials:

Avoid contact with alkaline agents.

Shelf Life: 10 months from the manufacturing date for unopened packages.
Once two components are mixed, the mixed coating must be used in 7 days, or small particles may form in the coating.

Delivery Package: 1 kg/set (400g of Component A and 600 g of Component B)

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