

844WB Liquid



Clear ESD Coating

844WB is a one-part, clear, water-based ESD paint made from a high quality aliphatic polyester urethane latex. It adheres strongly to plastics, paints, metals, and many other surfaces. The cured coating is flexible, durable, and will not crack, chip or peel.

This non-flammable, low odor, low VOC coating is used in electronic assembly lines to protect against electrostatic charge build-up on tools, production conveyor and bumpers, assembly trays, workstation surfaces, and enclosures.

844WB can be applied by roller, brush, manual and selective spray equipment.



Features & Benefits

- Permanent static dissipative coating
- Non-flammable, low odor, and low VOC
- Ready to spray
- Meets ANSI/ESD-S20.20
- Reworkable
- Strong adhesion with excellent flexibility

Available Packaging

| Cat. No. | Packaging | Net Vol. | Net Wt. |
|-------------|-----------|----------|---------|
| 844WB-850ML | Can | 850 mL | 878 g |
| 844WB-3.6L | Can | 3.60 L | 3.72 kg |

Contact Information

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Cured Properties

| | |
|----------------------------|----------------------------|
| Surface Resistance @ 50 µm | 5.6 x 10 ⁷ Ω/sq |
| Service Temperature Range | -40–120 °C |

Usage Parameters

| | |
|------------------------------|---------------------------|
| Recoat Time | 5 min |
| Cure Times | 45 min @ 45 °C |
| | 30 min @ 65 °C |
| | 10 min @ 80 °C |
| Recommended Film Thickness | 50 µm |
| Minimum Film Thickness | 40 µm |
| Theoretical Coverage @ 2 mil | 36 000 cm ² /L |

Uncured Properties

| | |
|-------------------|-----------|
| Viscosity @ 25 °C | 128 cP |
| Density | 1.03 g/mL |
| Percent Solids | 29 % |
| Shelf Life | 2 y |
| Calculated VOC | 71.3 g/L |

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Application Instructions

Read the product SDS before using this product (downloadable at www.mgchemicals.com).

Recommended Preparation

Plastic—Clean the substrate with Isopropyl Alcohol, MG #824, so the surface is free of oils, dust, and other residues.

Drywall—For new drywall, apply directly on top of the drywall primer, after the primer has properly cured. When applying on top of existing paint, first wash the wall with a solution of T.S.P. diluted with water at a 1:10 ratio, to ensure good adhesion.

Paint Roller

This product may be applied with a standard paint roller. Thinning is not required.

Manual Spray Guns

Use a standard fluid nozzle gun to spray the diluted paint. The settings listed below are recommendations; however, performance will vary with different brands:

| | LVMP | HVLP |
|---------------------|------------|------------|
| Nozzle tip diameter | 1.2–1.4 mm | 1.2–1.4 mm |
| Inlet pressure | 5–15 psi | 5–15 psi |
| Air flow | 10–15 SCFM | 8.3 SCFM |
| Air cap | 5–10 psi | 5–10 psi |

When using a pressure pot and agitator, keep the agitator at low mixing speed with air pressure of 20–50 psi. Use the lowest pressure necessary to keep the particles suspended.

Selective Coating

For higher volume applications, paint can be applied via selective coating equipment. Use a system with constant fluid recirculation to keep the particles from settling in the lines. A fluid nozzle ranging from 1.2 mm–1.4 mm diameter and 5–10 psi fluid pressure is recommended depending on nozzle size. Thin the paint to adjust the viscosity to the level appropriate for the valve being used.

Cure Instructions

Cure the paint in an oven at one of these time/temperature options:

| | | | |
|--------------------|--------|--------|--------|
| Temperature | 45 °C | 65 °C | 80 °C |
| Time | 45 min | 30 min | 10 min |

Clean-up

Clean the spray system and equipment with tap water after use.

Storage and Handling

Store between 4 and 40 °C in a dry area, away from sunlight (see SDS).

Disclaimer

This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.