

# 844AR Aerosol



## ESD Safe Coating for Plastic

844AR-340G is a 1-part, solvent-based acrylic coating, packaged in a convenient aerosol can. It adheres to many conventional plastic substrates and paint systems. The cured coating is flexible, durable, and will not crack, chip or peel. The coating can be cured at room temperature or higher.

It is used in electronics assembly lines to protect against electrostatic charge build-up on tools, production conveyors and bumpers, assembly trays, workstation surfaces, and enclosures.



## Features & Benefits

- Dark grey, uniform and smooth ESD coating
- Permanent static dissipative coating
- Quick-dry
- Strong adhesion with excellent flexibility
- Low VOC and HAP-free
- Does not contain toluene, xylene or MEK

## Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
844AR-340G	Aerosol	403 mL	340 g

## Contact Information

MG Chemicals, 1210 Corporate Drive  
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## Cured Properties

Surface Resistance @ 50 $\mu\text{m}$	$1.2 \times 10^7 \Omega/\text{sq}$
Service Temperature Range	-40–120 °C

## Usage Parameters

Recoat Time	3 min
Cure Times	24 h @ 22 °C 30 min @ 65 °C
Recommended Film Thickness	50 $\mu\text{m}$
Minimum Film Thickness	30 $\mu\text{m}$
Theoretical Coverage @ 2 mil (based on 50% transfer efficiency)	2 100 $\text{cm}^2$

## Uncured Properties

Viscosity @ 25 °C	18 cP
Density	1.0 g/mL
Percent Solids	14 %
Shelf Life	3 y
Calculated VOC	258 g/L

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## Safety Data Sheet

Read the product SDS and Application Guide for more detailed instructions before using this product (downloadable at [www.mgchemicals.com](http://www.mgchemicals.com)).

## Recommended Preparation

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

## Application Instructions

1. Shake the can vigorously.
2. Spray a test pattern to ensure good flow quality.
3. Tilt the board at 45° and spray a thin, even coat from a distance of 20–25 cm (8–10 in). Use spray-and-release strokes with an even motion to avoid paint buildup in one spot. Start and end each stroke off the surface.
4. Wait 3 min before applying another coat, to avoid trapping solvent.
5. Rotate the board 90° and spray again to ensure good coverage.
6. Apply additional coats until desired thickness is achieved (go to step 3).
7. Let dry 3 min at room temperature before applying heat cure.
8. After use, clear the nozzle by inverting the can and briefly spraying until clear propellant comes out.

## Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 3 minutes, cure the paint in an oven for 30 minutes @ 65 °C.

## Storage and Handling

Store between -5 and 25 °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.