

## Epoxy.com Product #677

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## Epoxy.com Product #677

### Electro Static Dissipative (ESD) /CONDUCTIVE COATING

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#### DESCRIPTION

Epoxy.com Product #677 is a pigmented, water-based epoxy coating designed to achieve either an electro-static dissipative (ESD) finish or conductive finish by modifying the underlying system components and thickness. Epoxy.com Product #677 has very low odor making it suitable for use in occupied buildings and has high bond strength and adhesion to concrete and other surfaces.

#### ADVANTAGES

- Durable, Attractive, Chemical Resistant, Non-Porous, Light Reflective Finish.
- Low Odor during application and cure.
- Maintains Electrical Conductivity Performance over the Wear Life of the System
- Fast Dry and Re-coat Time.
- Easy Clean-up.
- Provides an ESD finish in the range of 1,000,000 to 1,000,000,000 ohms resistance when used over a non-conductive primer/basecoat or a conductive finish in the range of 25,000 to 1,000,000 ohms resistance when used over a conductive

primer/basecoat.

## CONSIDERATIONS

- Substrate must be above 50°F and relative humidity below 85% for proper curing.
- Substrate must be free of dirt, waxes, curing agents and other foreign materials.
- Excessive moisture in the substrate will require a moisture vapor control treatment.

## TYPICAL USES

Concrete floors and walls in electronic component assembly areas, data processing, military/aerospace, pharmaceutical plants, hazardous industries (dust or explosion hazards). For use in any areas where the build-up of static electricity is a concern or a spark-proof floor is required.

## APPLICATION

### SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared and tested for moisture as outlined in Epoxy.com [Surface Preparation Guidelines](#).

### INSTALLATION

Mix Part B of Epoxy.com Product #677 prior to combining. Mix 1 part Part A with 2 parts Part B. Epoxy.com Product #677 at a rate of 200 ft<sup>2</sup> per gallon per coat with a short nap roller. Care should be taken to avoid puddles. Two coats are necessary to insure uniform coverage.

**Epoxy.com Product #677 Thin-Film ESD Epoxy Coating System** ◆ 12-15 Mils  
(1,000,000-1,000,000,000 ohms)

Material	Qty./ 1000 SF	Coverage
1. Epoxy.com Product #899 Epoxy Primer	4-5 gallons	200-250 SF /gallon
2. Epoxy.com Product #677 ESD/Conductive Epoxy Coating	5 gallons	200 SF /gallon
3. Epoxy.com Product #677 ESD/Conductive Epoxy Coating	5 gallons	200 SF /gallon

## CLEAN-UP

Clean skin with soap and water. Tools and equipment should be cleaned with warm soapy water, xylene or lacquer thinner. Consult Material Safety Data for safety and health precautions.

## COMPOSITION

Waterborne Epoxy Resin and Conductive Fillers

## COVERAGE

**Epoxy.com Product #677**, when applied at 200 SF per gallon, yields 5.2 ◆ to 6.0 mils dry film thickness.

## TECHNICAL DATA

Viscosity @ 75°F	600-1000 CPS
Mixing Ratio	1 Part A to 2 Parts B by Volume

Solids Content, by volume	50-55%
Volatile Organic Content (VOC)	<20 gm/L
Bond Strength to Concrete	400-500 psi (100% concrete failure)
Weight per Gallon, mixed	8.75-9.00 pounds per gallon, mixed

## CURE/DRY TIME

Pot Life	20-30 min.
Dry to touch	6 hours @ 75°F
Recoat	8-24 hours @ 75°F
Light Traffic	24 hours @ 75°F
◆H◆ Hardness	2 days
◆5-H◆ Hardness	30 days

## AVAILABILITY

Contact Epoxy.com Customer Service Department at 321-206-1833

## Maintenance

Remove animal fats, oil, grease or soap film promptly to reduce slipperiness. Epoxy.com Product #677 can be cleaned with neutral soaps and detergents. If long periods of heavy traffic cause wear patterns reapply as need. Anti-skid materials will reduce the effectiveness of the static dissipative properties of this material. Do not use aggressive anti-skids. It is impossible to get an accurate reading of the conductivity of the floor if anti-skids are used.

## Technical Services

Contact Epoxy.com Technical Support with your questions about this product at 352-533-2167. Epoxy.com Technical Support Department can help you with the selection, specification, installation, and maintenance of Epoxy.com products, or visit [www.epoxy.com](http://www.epoxy.com).

Proper mixing and installation is critical to the optimal success of all product. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

### Epoxy.com

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