

# 3M™ Electrical Insulating Sealers

## 1601-C, 1602-R

Data Sheet

September 2016

**Product Description** 3M Electrical Insulating Sealers are an insulating varnish used to help protect surfaces from moisture, oils, acid, and alkalis.

**Product Features**

- Clear or Red color
- Excellent flexibility
- Comfortable spray nozzle
- Excellent adhesion to metals, windings, and coils.

**Applications** 3M Electrical Insulating Sealer 1601-C or 1602-R can be used for touch up insulation on motor windings, small field and magnetic coils. Product can also be used for sealing electrical switchboard parts and electronic components.

Precautionary and first aid information for this product may be found in the Material Safety Data Sheet and on the product container.

**Application Techniques**

1. Prepare Surface – Product must be applied directly to dry, clean surfaces free from other paint or coatings. Ensure all surface contaminants such as rust, scale, paint, or any other foreign matter are removed.
2. **\*1602-R Only** - Turn can upside down and hit the sides lightly while rotating the can in ¼ inch turns until the agitator ball breaks free.
3. **\*Hold can upright and alternately shake the can up and down and in a circle until the agitator ball travels freely in the bottom.**
4. Press spray button firmly with the can 8–12 inches from the surface.
5. Apply several thin coats
6. To prevent clogging, hold can upside down and spray until clear gas comes out.  
**\*1601-C does not have an agitator ball.**

**Typical Properties**

	1601-C	1602-R
Drying Time at 70°F/21°C	Tack Free 15 – 30 minutes, Full cure 7days	Tack Free 15 – 30 minutes, Full cure 7days
Appearance	Clear/Amber / Semi-Gloss	Red / Semi-Gloss
Dielectric Strength (Per ASTM D 115-07)	2300 Volts / Mil	2600 Volts / Mil
Propellant	Hydrocarbon Blend	Hydrocarbon Blend
% Solids	22.8	22.8
Flexibility (Per ASTM D 522)	Pass	Pass
Temperature	Class F (310°F/155°C)	Class F (310°F/155°C)
Flash Point	> 0°F/-18°C	> 0°F/-18°C
Resin Type	Epoxy / Phenolic	Epoxy / Phenolic

NOTE: Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

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<b>Shelf Life &amp; Storage</b>	3M Electrical Insulating Sealers have a 1-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).
<b>Availability</b>	Please contact your local distributor; available from <a href="http://3M.com/electrical">3M.com/electrical</a> [Where to Buy] or call 1.800.245.3573.
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