



## Series 599-Z1619 | Product Data Sheet

**SERIES 599-Z1619 (Z1240-3G) WATER BASE COPPER CONDUCTIVE COATING THIRD GENERATION A** sprayable metallic coating system using a specially formulated non-oxidizing copper as the conductive agent. Developed for use as an RFI and EMI shield for plastic electronic equipment housings. **599-Z1619 (Z1240-3G)** can be used on acrylic, polycarbonate, ABS and structural foams, e.g. Noryl, Valox.

<b>SYSTEM:</b>	One component water base.
<b>SOLIDS:</b>	50 ± 2% by weight
<b>VISCOSITY:</b>	85 ± 5 KU
<b>DENSITY : (Measured)</b>	11.90 ± 0.5 lbs. per gallon (1.43 ± 0.06 kg per liter)
<b>VOC : (less water)</b>	1.75 ± 0.2 lbs. per gallon (0.21 ± kg per liter)
<b>SURFACE: RESISTIVITY</b>	<0.025 ohms/sq. @ 1 mil (25 microns) dry film thickness. <0.015 ohms/sq. @ 2 mils (50 microns) dry film thickness.
<b>COHESION:</b>	Excellent - zero tolerance to loose particles in film.
<b>ADHESION: (ASTM-D3359-97)</b>	Excellent to most plastic substrates.
<b>ATTENUATION:</b>	More than 75 dB from 1 MHz to 1 Ghz.
<b>APPLICATION: METHOD</b>	Standard air gun with pressure pot with agitation to keep copper in suspension. Recommended fluid delivery system: pressure pot with large diameter, paddle-type agitator at low RPM.
<b>DRYING TIME:</b>	Recommended 15 minutes flash off at room temperature then 30 minutes @ 160°F(71°C).
<b>HUMIDITY: RESISTANCE</b>	No change in resistivity or attenuation when tested in accordance with MIL-STD-202 Method 106 - 40 cycles: MIL-STD-810 Method 507 Procedure 5 - 480 hours cycling: meets UL Specification 746-C.
<b>COVERAGE:</b>	514 square feet/gallon per mil (COMPUTED FROM (12.62 M2/liter per 25 microns)@ 100% efficiency. SOLIDS BY VOLUME)
<b>STORAGE LIFE:</b>	Recommended storage in unopened containers is 12 months older material should have all Q.C. requirements rechecked before using.



## Worldwide Contact Information

### **Spraylat Corporation Electronic Materials Group**

716 South Columbus Avenue  
Mt. Vernon, NY 10550  
Phone: 800-336-1936  
Fax: 914-699-3035

### **Spraylat GmbH**

Krantzstrasse 7  
D-52070 Aachen, Germany  
Phone: +49-241-180 5152  
Fax: +49-241-180-5154

### **Spraylat (Shanghai) Representative Office**

Central Place  
Room 6008, 6th Floor  
No. 16, Henan (S) Road  
Shanghai, 200002, China, P.R.  
Phone: +86-21-6355-8006  
Fax: +86-21-6373-9599

### **Basictak Company Limited**

7F, No. 176, Min-Sheng E. Rd.,  
Sec. 2, Taipei, Taiwan  
Phone: +886-2-2516-5337  
Fax: +886-2-2505-9682

### **Metalux Molecular (S) Pte. Ltd.**

Block 20, Woodlands Link  
#06-30 Woodlands East Industrial Estate  
Singapore 738733, Singapore  
Phone: +65-6759-8883  
Fax: +65-6756-8883

### **Polychem Engineering Company Limited**

909-7, Kwanyang-Dong  
Dongan-Ku, Anyang-City  
Kyongki-Do, Korea 431-060  
Phone: +82-31-422-3884  
Fax: +82-31-422-3887

### **Basictak (Shenzhen) Company Limited**

111, Block 3  
No. 1001 HongHua Road  
Futian Free Trade Zone  
Shenzhen 518038, China, P.R.  
Phone: +86-755-8359-3100  
Fax: +86-755-8359-0037

### **Nagase and Company Limited**

5-1 Nihonbashi-Kobunacho, Chuo-Ku  
Tokyo, 103-8355, Japan  
Phone: +81-3-5640-2252  
Fax: +81-3-3665-3898