



Series 599-Z1627 | Product Data Sheet

SERIES 599-Z1627 WATER BASE COPPER CONDUCTIVE COATING 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-Z1627** can be used on acrylic, polycarbonate, ABS and structural foams, e.g. Noryl, Valox.

SYSTEM:	One component water base.
SOLIDS:	50 ± 2% by weight
VISCOSITY:	85 ± 5 KU
DENSITY : (Measured)	11.90 ± 0.5 lbs. per gallon (1.43 ± 0.06 kg per liter)
VOC : (less water)	1.75 ± 0.2 lbs. per gallon (0.21 ± kg per liter)
SURFACE: RESISTIVITY	<0.025 ohms/sq. @ 1 mil (25 microns) dry film thickness. <0.010 ohms/sq. @ 2 mils (50 microns) dry film thickness.
COHESION:	Excellent - zero tolerance to loose particles in film.
ADHESION:	Excellent to most plastic substrates. (ASTM-D3359-97)
ATTENUATION:	More than 75 dB from 1 MHz to 1 Ghz.
APPLICATION: METHOD	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.
DRYING TIME:	Recommended 15 minutes flash off at room temperature then 30 minutes @ 160°F(71°C).
HUMIDITY: RESISTANCE	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.
COVERAGE:	514 square feet/gallon per mil (COMPUTED FROM (12.62 M2/liter per 25 microns)@ 100% efficiency. SOLIDS BY VOLUME)
STORAGE LIFE:	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