



PRODUCT INFORMATION

HIGH TECHNOLOGY MATERIALS

MEREKO METADUCT 1216-2™ ONE-PART ELECTRICALLY CONDUCTIVE SILVER-FILLED EPOXY ADHESIVE AND SEALANT

Mereco Metaduct 1216-2 is a new, electrically conductive silver-filled epoxy adhesive that has been developed specifically for connector and interconnect bonding applications where an electrically conductive adhesive system with good bond strength to a variety of substrates is required. Metaduct 1216-2 Series has also been used extensively in electrical termination bonding, and bonding electronic components to circuit boards and leadframes.

This product is also available in a lower viscosity version (Metaduct 1216-2LV) with a slight decrease in electrical conductivity (0.005 ohm-cm).

No Mixing, Easy Cure Schedule

Metaduct 1216-2 can be cured in 2 hours at 125° C. To attain maximum properties, a post cure of 1 hour at 150° C is recommended.

Cure Schedule

Hours	° C
2	125
1 (Post)	150

The outstanding properties of Metaduct 1216-2 are high adhesion, no mixing, long working life, and high electrical conductivity.

Mereco 1216-2 has proven to be an excellent choice in connector and interconnect applications where high electrical conductivity and low solder joint stress are needed. It can also be used for conductive splicing of ribbon cables, PTF circuits, and electrical attachment of surface mounted devices.

Technical information and recommendations made by Mereco Division and Metachem Resins Corporation concerning products and uses or applications thereof, are based on reliable laboratory tests and are believed to be accurate. No warranty, however, is expressed or implied, nor is any warranty expressed or implied as to results to be obtained from use of said materials, whether used singly or in combination with other products. No statements made are to be construed as constituting a license under any existing patent.

Typical Properties of Uncured Metaduct 1216-2

Color	Silver
Form	Thin Paste
Specific Gravity	2.9
Flash Point, ° C	200

Typical Properties of Cured Metaduct 1216-2 Should not be used for specification purposes

Mechanical	
Shore Durometer, D	80 +/-10
Tensile Lap Shear (Al-Al), psi	1500-2000
Thermal	
Operating Range °C continuous	-55 to 150
Intermittent	To 220
Expansion Coefficient, 10 ⁶ X °C ⁻¹ (est.)	25-35
Electrical	
Electrical conductivity, ohm · cm	0.00018

Air Removal

Air entrapment may be removed in vacuum (5mm of mercury). The holding container should be no more than one-third full. Allow the mixture to foam and then subside. Maintain the low pressure for several more minutes, until most of the large bubbles have broken.

Application

The adhesive should be applied in a 2-5 mil thickness to one surface after which the parts are mated and set aside to cure using the recommended cure schedules.

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Safety, Storage, and Handling

Before using Metaduct 1216-2, consult the Material Safety Data Sheet for appropriate handling procedures and protective equipment.

Availability and Order Information

Packaging

Mereco Metaduct 1216-2 is available in 1 oz., 2 oz., 4 oz., 8 oz., 16 oz., and 32 oz. cans. On special order, the product can also be made available in other sizes.

When ordering, specify the name, number, letter designation, color, quantity, container size and packaging form. The order should be placed with the Mereco order entry department at 1-800-556-7164 or by mail to the address listed on this bulletin. The minimum order size is \$100.00. Evaluation kits are available for \$50.00.