



# PRODUCT INFORMATION

**HIGH TECHNOLOGY MATERIALS**

## METADUCT 1225 SN-742

### **LOW-COST GENERAL PURPOSE ELECTRICALLY CONDUCTIVE ADHESIVE**

**METADUCT 1225 SN-742** is an easy-to-use economical electrically conductive epoxy adhesive which has been specifically formulated for cost-critical applications.

**METADUCT 1225 SN-742** is supplied in two parts which, when mixed, cure at room temperature into a rigid solid with excellent electrical conductivity -- low enough to satisfy most general purpose requirements. When blended together in proper mixing proportions, the two components produce a thin paste which is readily applied by brush or trowel or from a syringe.

**METADUCT 1225 SN-742** provides a convenient alternative to lead-tin soldering for bonding or making circuit connections, especially where soldering is not feasible. Adhesion to metal, glass and plastic is excellent.

#### UNCURED PROPERTIES

	<u>BASE</u>	<u>ACTIVATOR</u>
Viscosity at 25°C (cps)	30-50,000	80
Specific Gravity (25°/25°C)	1.65	0.96
Shelf Life (months)	6	6
Working Life (minutes)	120	

#### CURED PROPERTIES PHYSICAL

Moisture Absorption, 30 days @ 27°C (%)	0.10
Hardness (Shore D)	85
Tensile Strength (psi)	8800
Compressive Strength (psi)	13,500
Thermal Conductivity (BTU/hr-sq ft-°F/in)	3.2
Thermal Expansion Coefficient (°C)	$1.8 \times 10^{-5}$
Thermal Deflection Temperature (°C)	90
Operating Temperature Range (°C)	-50 to +150
Specific Gravity (25°/25°C)	1.64

#### ELECTRICAL

Volume Resistivity (ohm-cm)	0.018
-----------------------------	-------

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.

FORM 1105 REV. 0

**INSTRUCTIONS FOR USE**

1. Mix **METADUCT 1225 SN-742 BASE** thoroughly until uniform in the container in which it is received. Then weigh out the amount desired into separate containers.
2. Measure 4.5 parts of **METADUCT 1225 SN-742 ACTIVATOR** by weight for each 100 parts of base. Mix thoroughly. Working life will be 2 hours at room temperature.
3. Select either of the following curing schedules:

Room temperature (77°F)  
150°F

8 hours, or  
30 minutes