



# PRODUCT INFORMATION

**HIGH TECHNOLOGY MATERIALS**

## METADUCT 1225 SN-736

### LOW-COST GENERAL PURPOSE ELECTRICALLY CONDUCTIVE ADHESIVE

**METADUCT 1225 SN-736** is an easy-to-use economical electrically conductive epoxy adhesive which has been specifically formulated for cost-critical applications.

**METADUCT 1225 SN-736** 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. This adhesive is also used to join conductive silicone gaskets to aluminum flanges.

#### UNCURED PROPERTIES

	<u>BASE</u>	<u>ACTIVATOR</u>
Viscosity at 25°C (cps)	30 x 10 <sup>6</sup>	80
Specific Gravity (25°/25°C)	1.70	0.96
Shelf Life (months)	6	6
Working Life (minutes)	60	

#### 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)	3.3
Thermal Expansion Coefficient (°C)	1.8 x 10 <sup>-5</sup>
Thermal Deflection Temperature (°C)	90
Operating Temperature Range (°C)	-50 to +150
Specific Gravity (25°/25°C)	1.69

#### ELECTRICAL

Volume Resistivity (ohm-cm)	0.015
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FORM 1105 REV. 0

**INSTRUCTIONS FOR USE\***

1. Mix **METADUCT 1225 SN-736 BASE** thoroughly, until uniform, in the container in which it is received. Then weigh out the amount desired in a separate container.
2. In another container by weight measure 4.5 parts of **METADUCT 1225 SN-736 ACTIVATOR** for each 100 parts of Base. Mix thoroughly. Working life is one hour at room temperature.\*\*
3. Select either of the following curing schedules:

Room temperature (77°F)	8 hours
150°F	30 minutes

\*Premeasured METREMIX packs are available on special order. The METREMIX pack contains activator and base in separate pouches ready to mix. Follow instructions on pack.

\*\*For longer working life use **METADUCT 1225 XL-245** (90 minutes) or **METADUCT 1225 SN-742** (2 hours).