

#7335 Electrically Conductive Carbon Epoxy



#7335

Warranty

WPI (World Precision Instruments, Inc.) warrants to the original purchaser that this equipment, including its components and parts, shall be free from defects in material and workmanship for a period of one year* from the date of receipt. WPI's obligation under this warranty shall be limited to repair or replacement, at WPI's option, of the equipment or defective components or parts upon receipt thereof f.o.b. WPI, Sarasota, Florida U.S.A. Return of a repaired instrument shall be f.o.b. Sarasota.

The above warranty is contingent upon normal usage and does not cover products which have been modified without WPI's approval or which have been subjected to unusual physical or electrical stress or on which the original identification marks have been removed or altered. The above warranty will not apply if adjustment, repair or parts replacement is required because of accident, neglect, misuse, failure of electric power, air conditioning, humidity control, or causes other than normal and ordinary usage.

To the extent that any of its equipment is furnished by a manufacturer other than WPI, the foregoing warranty shall be applicable only to the extent of the warranty furnished by such other manufacturer. This warranty will not apply to appearance terms, such as knobs, handles, dials or the like.

WPI makes no warranty of any kind, express or implied or statutory, including without limitation any warranties of merchantability and/or fitness for a particular purpose. WPI shall not be liable for any damages, whether direct, indirect, special or consequential arising from a failure of this product to operate in the manner desired by the user. WPI shall not be liable for any damage to data or property that may be caused directly or indirectly by use of this product.

Claims and Returns

- Inspect all shipments upon receipt. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed loss or damage should be reported at once to the carrier and an inspection requested. All claims for shortage or damage must be made within 10 days after receipt of shipment. Claims for lost shipments must be made within 30 days of invoice or other notification of shipment. Please save damaged or pilfered cartons until claim settles. In some instances, photographic documentation may be required. Some items are time sensitive; WPI assumes no extended warranty or any liability for use beyond the date specified on the container.
- WPI cannot be held responsible for items damaged in shipment en route to us. Please enclose merchandise in its original shipping container to avoid damage from handling. We recommend that you insure merchandise when shipping. The customer is responsible for paying shipping expenses including adequate insurance on all items returned.
- Do not return any goods to WPI without obtaining prior approval and instructions (RMA#) from our returns department. Goods returned unauthorized or by collect freight may be refused. The RMA# must be clearly displayed on the outside of the box, or the package will not be accepted. Please contact the RMA department for a request form.
- Goods returned for repair must be reasonably clean and free of hazardous materials.
- A handling fee is charged for goods returned for exchange or credit. This fee may add up to 25% of the sale price depending on the condition of the item. Goods ordered in error are also subject to the handling fee.
- Equipment which was built as a special order cannot be returned.
- Always refer to the RMA# when contacting WPI to obtain a status of your returned item.
- For any other issues regarding a claim or return, please contact the RMA department.

Warning: This equipment is not designed or intended for use on humans.

* Electrodes, batteries and other consumable parts are warranted for 30 days only from the date on which the customer receives these items.



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Electrically conductive carbon epoxy

INSTRUCTION MANUAL

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032207

World Precision Instruments

7335 is a two-part, carbon-filled, room temperature curable epoxy coating adhesive. It is electrically conductive for ESD protection or EMI/RFI shielding applications. The coating possesses a long pot life and fast elevated temperature curing characteristics for automated production.

TYPICAL PROPERTIES

Electrical Resistivity (150°C/5 minutes)
< 10 ohm-cm

Electrical Resistivity (25°C/48 hours)
< 10 ohm-cm

Glass Transition Temperature
45°C

Lap-Shear Strength (cured @ 150°C/5 min)
1000 psi 6.9 N/mm²

Cured Density
2.0 gm/cc

Thermal Conductivity
6 BTU-in/hr-ft²-°F
0.87 Wat/m-°C

Linear Thermal Expansion Coefficient
110 ppm / °C

Shelf Life (@ 25°C)
8 months (store refrigerated for better performance)

Pot Life-mixed (@25°C)
6 hours

Max. Continuous Operating Temp.
160°C

EMI/RFI Shielding Effectives (2 mils coating @ 10 MHz)
75 dB



APPLICATION

- Mix adhesive in 1:1 ratio.
- Dispense adhesive onto clean substrate.
- Cure according to one of the recommended schedules.
- The two components can be premixed and frozen.
- The mixture can be prepared as a slurry by adding the desired amount of methylethyl ketone.

CURE SCHEDULES

Temperature	Time
25 °C	48 hrs.
80 °C	60 min.
150 °C	5 min.

INGREDIENTS

Epoxy resin, modifier, graphite, MEK solvent

PHYSICAL DATA

Solubility in Water
None

Specific Gravity (H₂O=1)
2.0

% Volatile by Volume
@ 28.5%

HAZARDOUS INGREDIENTS AS DEFINED IN 29CFR1910–1200

MATERIAL	CAS NO.	%	OSHA PEL	ACGIH TLV
Graphite	7782-42-5	40-90	10 mg/m ³ *	10 mg/m ³ *
Epoxy Admixture	Proprietary	60-10	None established	None established

**For powders only; in this adhesive product, powders are bound in adhesive and values are not applicable.*

FIRE & EXPLOSION HAZARD DATA

Flash Point
Not applicable

Flammable Limits (limits in air)
LFL: None UFL: None

Extinguishing Media
Water fog, carbon dioxide, dry chemical

Special Fire Fighting Equipment and Hazards
Use self-contained breathing apparatus; decomposition and combustion products may be toxic.

REACTIVITY DATA

Stability
Stable

Incompatibility
Strong acids, strong bases

Hazardous Decomposition Products
Carbon monoxide;
carbon dioxide.

Hazardous Polymerization
None

CAUTION

Avoid contact with eyes, skin or clothing. Use of splash-proof goggles, protective gloves or barrier cream is recommended. Avoid breathing vapor. Use with good ventilation. Wash after handling and before eating, drinking or smoking.

If contact does occur, wash immediately with soap and water.

No ingredient in this product is known to be carcinogenic.