

1 YEAR
WARRANTY

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User's Guide

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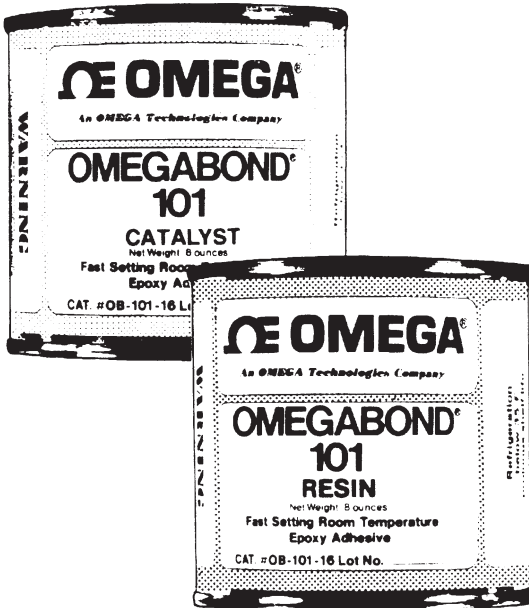
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OB-101
OMEGABOND[®] Epoxy adhesive

General Description

OMEGA's OB-101 Epoxy Cement is a versatile, room temperature cure, two-part epoxy cement. It is designed to permanently bond OMEGA's CO series, cement-on and beaded wire thermocouples, and other sensors to a wide variety of materials. OB-101 has many exceptional characteristics including:

- Resists temperatures to 221°F (105°C)
- Resists oil, solvents and most acids
- Heat conductive and tensile shear resistant
- Excellent electrical insulator
- Excellent mechanical bonding characteristics
- Adheres to most surfaces

OMEGABOND® OB-101 Epoxy Cement may be used with many materials including aluminum, steel, various stainless steels, copper, brass, black iron, wood, porcelain, brick, paper products, PVC, PVDC, polycarbonate, neoprene, cellulose acetate, hand board, and most plated surfaces.

Handling Information

CAUTION

- Avoid prolonged breathing of vapors - work in well ventilated area
- Protect skin against contamination
- Protect eyes against contamination
- Do not take internally

Shelf Life: OMEGA's OB-101 has a shelf life of six (6) months when stored in unopened, tightly sealed containers at 70°F. Shelf life will be extended to one year if kept at 35°F in a dry environment.

Solvent

Methylene chloride may be used to remove excess OB-101 before curing. After curing, methylene chloride may also be used to dissolve the epoxy, but with greater difficulty.

Directions For Use

1. Clean the surfaces to be bonded with solvents or detergents. Plastic surfaces should be lightly sanded.
2. When using OB-101 Cement in can kits, dispense, as indicated below, parts by volume or weight of resin and hardener on a mixing surface side by side. Blend thoroughly, using a mixing stick, until the mixture is uniform in texture and color.

Mix Ratio: 100 parts of Part A
100 parts of Part B (by volume)
180 parts of Part B (by weight)

Directions For Use (cont'd)

3. If supplied in twin packs, remove partition dividers, blend and mix the two parts together within the pouch by kneading. After mixing thoroughly (mixture should be uniform in texture and color), snip off corner of pack to dispense.
4. Apply the thixotropic, off-white mixture to the clean surfaces and bring them together, squeezing out the excess. Only contact pressure is normally required.

Curing

Allow about four hours for initial set at room temperature (75°F, 24°C). Full cure will develop during the following 24 hours. Cure may be accelerated by moderate heat.

Physical Properties*

Service Temperature	-67°F to 221°F (-55°C to 105°C)
Thermal Conductivity (BTU) (in/hr) (ft ²) (°F):	7.2
Thermal Conductivity (cal) (cm/sec) (cm ²) (°C):	0.0025
Volume Resistivity, ohm-cm:	10 ¹⁵
Tensile Shear, ½" (1.27cm) overlap, psi:	2,200, min. (154 kg/sq. cm)
Flexural Strength, psi:	12,000, min. (840 kg/sq. cm)
Coefficient of Thermal Expansion:	20 x 10 ⁻⁶ in/in/°F (36 x 10 ⁻⁶ in/in/1°C)
Chemical and Solvent Resistance:	Excellent
Color:	White

*Determined under laboratory conditions using applicable ASTM procedures. Actual field data may vary. Do not use Physical Properties for warranty specifications.

NOTE

The Material Safety Data Sheet (MSDS-0107) for OMEGA's OB-101 cement is included with each cement kit.



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WARNING: These products are not designed for use in, and should not be used for, human applications.

**WARRANTY/DISCLAIMER**

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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