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The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.
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. OMEGA is a registered trademark of OMEGA ENGINEERING, INC.

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M0065/0617

1 YEAR
WARRANTY

OMEGA®
User's Guide

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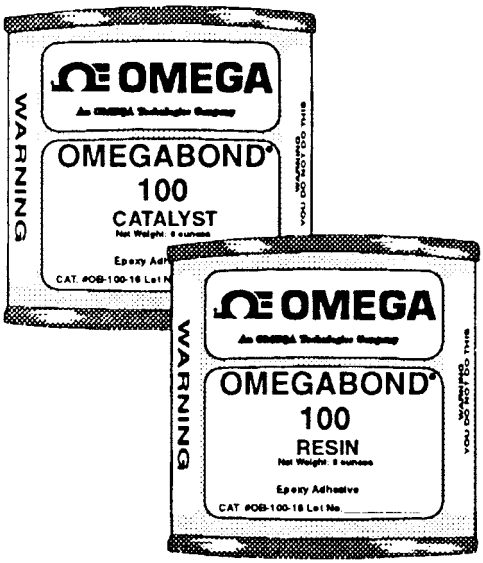

OB-100
OMEGABOND® Epoxy adhesive

General Description

OMEGABOND® 100 is a fast (8 to 12 minutes setting time) room temperature, two-part epoxy. It is recommended for easy, temporary and permanent bonding of beaded wire, "Cement-On" and other temperature sensors. OMEGABOND 100 adheres to metals, ceramics, epoxy laminates, glass, wood, concrete and many other materials. It is for temperature measurement to 265°F (130°C).

Temporary installation of beaded wire thermocouples can be achieved by using a very small amount of OMEGABOND 100 to tack the bead to the surface and then packing **OMEGATHERM® 201** silicon conductive paste around the exposed surfaces to improve heat transfer. The OMEGABOND 100 clear syrup consistency, 100% solid adhesive contains no solvents and has good electrical insulation characteristics. Note the working time, after mixing, is only 6 to 12 minutes. OMEGABOND 100 is available in "Twin Paks" and one pound kits.

Handling

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: Up to 1 year @ 25°C

Storage: store in a cool, dry, well ventilated area, Keep containers tightly closed and away from heat, direct sunlight and ignition sources.

Physical Properties

Color	Clear
Specific Gravity at 68°F (20°C)	1.20
Viscosity after mixing at 68°F (20°C)	12,000 cps
Working time after mixing at 68°F (20°C)	6-12 mins.
Temperature range for use	-131° to 265°F (-55° to 130°C)
Lap Shear, Aluminum to Aluminum, (psi)	
After 30 minutes at 68°F (20°C)	1,000
After 24 hours at 68°F (20°C)	2,800
Mixing ratio (by weight and/or volume)	one to one

Physical Properties (cont'd)

Electrical Insulation Volume Resistivity (ohms-cm)	10^{12}
Coefficient Thermal Expansion (in/in/°F)	51×10^{-6}

Directions For Use

CAUTION

OMEGABOND 100 is exothermic - it generates heat after the two parts are mixed.

DO NOT mix more than two ounces total of resin and catalyst at one time, or mixing container may become too hot to be touched by an unprotected hand.

1. Before mixing, read and observe all cautions. Note that the working time of mixed resin and catalyst is only 6 to 12 minutes. Therefore, do not mix more material than you will be able to work with during this period.
2. Clean the surface to be bonded with solvent or detergents.
3. When using OMEGABOND 100 in can kits, dispense equal parts by volume or weight of resin and hardener into a separate container for mixing. Do not mix more than one ounce of resin and one ounce of catalyst at a time. Blend thoroughly until mixture is uniform in texture and color.
4. If supplied in twin packs, remove partition divider, blend and mix the parts together within the pouch by kneading. After mixing thoroughly (mixture should be uniform in texture and color), snip off comer of pack to dispense.
5. Apply the mixed adhesive to the clean surfaces and bring together, squeezing out the excess. No pressure is needed. Surfaces should, however, be maintained in intimate contact. Cure is effected within two hours at room temperature. Bond strength will increase during the following 24 hours. For a rapid full cure, let stand at room temperature for 30 minutes; then heat to 60°C for one to two hours.

This information is not to be taken as warranty for which we assume legal responsibility nor as permission or recommendation to practice any patented invention without license. It is offered for consideration, investigation, and verification.