



## CO and COL Thermcoat Cement



M0101/0801

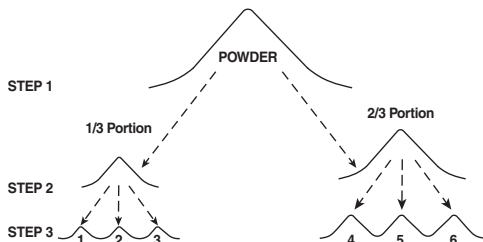


Figure 1. Mixing Diagram

OMEGA® Thermcoat CO and COL consists of a powder (CO) and a liquid (COL) which, upon proper mixing, will yield a strong, insoluble cement. It has good thermal and electrical insulation properties, a minimal amount of shrinkage, and a temperature rating to 500°F (260°C).

### HANDLING



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

### SHELF LIFE: 18 to 24 months

OMEGA CO and COL should be stored in a dry, cool environment, away from light to prolong shelf life. The COL liquid bottle should be tightly sealed.

### PHYSICAL PROPERTIES

Compressive Strength	15,500 psi
Solubility (in water)	0.1%
Film Thickness	Less than 25 microns
Maximum Service Temperature	500°F (260°C)

### DIRECTIONS FOR USE

The reaction between the liquid and the powder is exothermic, which means it generates heat. For this reason, the heat must be dissipated or the cement will set too quickly, have a sandy or gritty texture, and become brittle. To ensure that the heat is properly dissipated, smear the cement over a large surface area during mixing. It is also important that only a small amount of powder is added to the liquid initially to prevent too much heat from being generated.

Shake the liquid well before each use. Put approximately one part liquid to one part powder by volume on a clean, cool, dry work surface. Divide the powder into two portions, one being twice the size of the other (see Figure 1, Step 1). Now divide each of these portions into three equal portions for a total of six portions (see Figure 1, Step 2). Mix the smaller three portions together, one at a time, with the liquid for approximately 15 seconds each. Add the fourth and fifth portions slowly to the mixture. The sixth portion, should be added in small increments to adjust the consistency. It is recommended that the mixture be made as thick as possible without becoming dry or hard to work with. The mixture is made stronger with the addition of powder. Initial set time is approximately 10 to 20 minutes with a final set in approximately one hour.

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.

**omega.com**

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**OMEGAnet® Online Service**  
omega.com**Internet e-mail**  
info@omega.com**Servicing North America:**

**U.S.A.:** One Omega Drive, Box 4047  
**ISO 9001 Certified** Stamford, CT 06907-0047  
 Tel: (203) 359-1660 FAX: (203) 359-7700  
 e-mail: info@omega.com

**Canada:** 976 Bergar  
 Laval (Quebec) H7L 5A1, Canada  
 Tel: (514) 856-6928 FAX: (514) 856-6886  
 e-mail: info@omega.ca

**For immediate technical or application assistance:**

**U.S.A. and** Sales Service: 1-800-826-6342/1-800-TC-OMEGA®  
**Canada:** Customer Service: 1-800-622-2378/1-800-622-BEST®  
 Engineering Service: 1-800-872-9436/1-800-USA-WHEN®  
**Mexico:** En Español: (001) 203-359-7803 e-mail: espanol@omega.com  
 FAX: (001) 203-359-7807 info@omega.com.mx

**Servicing Europe:**

**Czech Republic:** Frystatska 184, 733 01 Karviná, Czech Republic  
 TEL: +420 (0)59 6311899  
 FAX: +420 (0)59 6311114  
 Toll Free: 0800-1-66342  
 e-mail: info@omegashop.cz

**Germany/Austria:** Daimlerstrasse 26, D-75392 Deckenpfronn, Germany  
 Tel: +49 (0)7056 9398-0  
 FAX: +49 (0)7056 9398-29  
 Toll Free in Germany: 0800 639 7678  
 e-mail: info@omega.de

**United Kingdom:** One Omega Drive, River Bend Technology Centre  
**ISO 9002 Certified** Northbank, Irlam, Manchester  
 M44 5BD United Kingdom  
 Tel: +44 (0)161 777 6611  
 FAX: +44 (0)161 777 6622  
 Toll Free in United Kingdom: 0800-488-488  
 e-mail: sales@omega.co.uk

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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.

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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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