

# CS 3104M Low Adhesion Potting Compound

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Chem Seal

Technical Bulletin  
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## PRODUCT DESCRIPTION

CS 3104 M will protect electrical connections from corrosion by atmospheric moisture. Its low adhesive strength makes it possible to remove the encapsulating material from the connections. Bonding to the remaining cured material during re-encapsulation is obtained without special preparation.

A soft, low adhesion potting compound for electrical components. CS 3104 M is easily removed for access to the encapsulated components, and easily repaired. CS 3104 M is a two-part polysulfide based compound.

Color:	
Base Compound	White
Curing Agent	Black
Specific Gravity	Part A 1.8 Part B 1.7
Hardness, Shore A	4
Tensile Strength	18 psi
Solids Content	98%
Adhesive Strength (180° peel from Aluminum)	Less than 1 lb/100% Cohesive Failure
Corrosion Resistance (72 hour immersion in 3% Salt solution at 120°F)	No visible corrosion of substrate
Volume Resistivity	$2 \times 10^{12}$ OHMS-CM
Surface Resistivity	$3 \times 10^{12}$ OHMS

## MIXING INSTRUCTIONS

**CAUTION:** This product has a limited application life. Do not mix Part A and Part B together until ready to use. Part A and Part B are carefully matched in production for optimum performance characteristics. Care should be taken to assure that the Part B packaged with a given Part A isn't separated and used with a different Part A.

Proper mixing of all two-part synthetic rubber compounds requires care to obtain a uniform, air free mix. Mechanical mixing is recommended for best results. However, mixing by hand is entirely satisfactory for small quantities. When material is to be mixed in the gallon or smaller sized unit, it is advisable to remove the lip of the container with a can opener to make the mixing and pouring operations easier.

The Part B is first stirred separately to assure even dispersion, then transferred into the Part A. Mix slowly with a paddle or low speed mixer (70-80 rpm) for approximately seven to ten minutes until a thorough blend is obtained. In order to insure proper dispersion scrape the paddle the bottom and sides of container several times during mixing procedure.

## APPLICATION

CS 3104M is a pourable compound and may be either poured or pumped and allowed to level by itself. As satisfactory performance depends on continuous contact between the compound and the surfaces of the component, every effort should be made to prevent or eliminate gaps, bubbles, or voids. Consequently, whenever possible, components should be filled in a continuous operation without layering of the compound.

Chem Seal Products

Manufactured By The Flamemaster Corporation

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## STORAGE LIFE

CS 3104M may be stored for approximately one year below 80°F in the original unopened containers without deterioration of the usefulness or performance properties of the cured material. Minor changes may occur in application properties. If a skin appears on the surface of the Part B, simply remove it and use the remainder.

Viscosity:	
Base Compound	500 poises
Cure Time	36 hours
Gel Time	5 hours
Consistency:	
Curing Agent	Heavy Paste
Mixed System	Pourable
Mixing Ratio (by Weight)	100:10
Work Life	2 hours

## CLEANING OF EQUIPMENT

CS 3104M should be removed from equipment and tools with CS 9900 Solvent before the sealant cures. Cured materials may be removed from the equipment by soaking and scrubbing with solvent.

## SAFETY

CS 3104 M has not been found to have any toxic effect in normal usage. However, because some individuals may be sensitive to chemicals used in the manufacturing of the curing agent, excessive contact should be avoided.

## PACKAGING

CS 3104 M is packaged in the following kit sizes:

4 ea. per case Gallon Kit

CS 3104 is also available in 3 1/2 Gallon, 5-Gallon and 50 Gallon Drum Kits.

*Refer to the applicable Material Safety Data Sheet prior to using this product.*

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warrant, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer that proves to be defective. Neither seller nor manufacturer shall be liable to buyer or third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

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