



# Circalok™ 6702 A/B

## TWO COMPONENT ENCAPSULANT

### Description:

Circalok™ 6702 A/B is a high density, thermally conductive, primerless silicone rubber used to encapsulate sensitive electronic modules.

### Features and Benefits:

**Medium Viscosity** - this rubber is easy to mix and use. A simple 1:1 ratio saves time.

**Primerless Adhesion** - time is saved and labor costs are reduced as primer applications are usually not necessary.

**High Thermal Conductivity** - can be used over delicate components where high temperature operations are required.

**Flame Resistant** - This material is recognized by Underwriters Laboratories as a 94V-0 material.

### TYPICAL PROPERTIES:

#### Typical Uncured Properties:

	6702A	6702 B	Mixed
Color	Red	White	Red
Viscosity @ 25°C (78°F), cps	35,000	28,000	30,000
Shelf life, months in unopened containers	6	6	N/A

#### Typical Cured Properties:

Specific Gravity (g/cc)	2.20
Hardness, Shore A	65
Tensile Strength (psi)	600
Elongation (%)	80
Tear Resistance, Die B lbs/in	75
Service Temperature	-55° to 260°C or -67° to 500°F

#### Typical Thermal Properties:

Thermal Conductivity, BTU/ft <sup>2</sup> /hr/°F/in	10.1
---	------

#### Handling Characteristics:

Mix Ratio (by weight or volume)	100:100
Pot Life @ 25°C (78°F)	4 hours
Cure @ 85°C (185°F)	16-24 hours*

### Surface Preparation

Clean, dry, and prepare surfaces for optimum performance.

Lord Corporation  
111 Lord Drive  
Cary, NC 27511 USA

Web Site: [www.lord.com](http://www.lord.com)  
Phone: 1-800-746-8343  
1-317-259-4161  
Fax: 1-317-252-8402

### Mixing

Stir Part A. Then, clean the mixing utensils and stir Part B. Next, mix Part A and Part B together thoroughly. When necessary to remove entrapped air, evacuate prior to pouring.

### Application

Pour directly from mixing container on to application.

### Curing

\*Circalok™ 6702 A/B will require a cure of 16-24 hours @ 85°C for optimum properties, especially for large volumes.

### Clean Up

Clean equipment and spills while silicone is still wet. Use a dry rag wipe.

### Packaging

- 1 Quart Can
- 1 Gallon Pail
- 5 Gallon Pails
- 55 Gallon Drum

### Storage

Store unopened container in a dry area for 6 months at temperatures up to 38°C (100°F).

### Handling Precautions:

The labels on containers of Lord materials contain current information on the hazards associated with each particular product. Most silicone resins and hardeners are skin and eye irritants, and some may actually be corrosive to the skin and eyes. Other problems, such as skin sensitization or serious health hazards may exist. Further information on each product is contained in the Material Safety Data Sheet, which will be sent upon request.

Circalok™ 6702 A/B is an addition cure silicone system and therefore produces no by-products. The system has excellent reversion resistance at high temperature and will not cause any corrosion. Being an addition cure system, Circalok™ 6702 A/B is, however, sensitive to cure inhibition if it is contaminated by other silicone RTV's amines and any sulfur or butyl containing products.

**IMPORTANT NOTICE TO PURCHASERS:** Only those properties identified as "specifications" on Lord technical bulletins are tested by Lord's Quality Control Department prior to shipment. The results of these tests must conform to those "specifications". Other properties are "typical". Tests are not run on the "typical properties" of every batch produced. "Typical property" data is not intended for specification purposes and Lord assumes no responsibility and makes no warranty with respect to it. If any property, other than those designated as Lord "specifications", is important to the purchaser, information as to such property will be supplied only upon the basis of test procedures agreed upon between Lord and the purchaser prior to the acceptance of the purchaser order.

Information contained herein is offered solely to assist the purchaser in selecting the appropriate products for the purchaser's own testing. Lord, its sales agents and distributors make NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR OF THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. Lord assumes no responsibility for the suggestions of its sales agents and distributors. This product and all information supplied in connection with it is used at the purchaser's own risk, conditions of use being beyond Lord's knowledge or control. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.