



Silicone Adhesive Sealants  
Potting and Encapsulation Compounds  
Thermal Transfer Materials  
Conformal Coatings  
Greases & Primers

*World Class Silicones  
for Worldwide Solutions*



# 1-Part Adhesive Sealants

ACC Silicones have over 30 years experience manufacturing 1-Part adhesives for high performance applications. Using a variety of cure mechanisms, modifications can be made to the rheology or flow characteristics, hardness, elasticity, cure speed, extrusion rate and compatibility with substrates.

## Industries serviced:

Aerospace, Electronics, Automotive, Photovoltaic's, Lighting & LED's, Food Processing, Offshore, Construction, Textiles, Medical, Marine, Solar, Rail, Utilities

## Typical applications involve:

Bonding, Gasketing, FIPG, Sealing, Anti-slip for Surgical Appliances & Hosiery, Electrical Insulation, Environmental Protection, Coatings, Vibration Control



## Electronic Grades

A range of non-corrosive adhesives specifically formulated for use in the electronics industry. Patented chemistry provides a wide range of physical properties to meet most application requirements.

- Neutral Cure non-corrosive
- Fast cure and skinning times
- High Temperature to +300°C
- Flowable and Paste
- Thermally Conductive
- UL certified grades
- RTV and Heat Cured



## Mil-A-46146B Grades

Tested to meet the demanding Mil-A-46146B standard, this range of products have exceptional strength making them ideal for the most demanding of applications.

- Neutral cure non-corrosive
- High strength
- Fast cure and skinning times
- Wide Temperature -60°C to +316°C
- Flowable and Paste



## Photovoltaic Adhesives

ACC have adhesives which are particularly well suited to the applications found within the Solar and Photovoltaic markets. These materials are neutral cure with excellent adhesion to the substrates used in PV manufacturing.

## Silcoset Brand

The Silcoset trade name is well respected as a performance grade approved for use by Rolls-Royce Aerospace, the MOD and BAE.

- High temperature stability
- Rolls-Royce, MOD Approved
- Good electrical insulation
- Resistance to many oils, chemicals and solvents
- Excellent bonding to a wide range of substrates

## Heat Cured

Improve productivity with our platinum curing adhesives providing fast cure through in (5-10 mins) at temperatures between 100°C and 150°C.

## Food Contact

ACC have several adhesive sealants that can be used in certain food preparation areas and are suitable for some food contact applications. For a more detailed explanation of FDA compliance see Data sheets.

## Potting and Encapsulation Compounds

Modern electronic components require protection from vibration, harsh environmental conditions and excessive heat. ACC Silicones have a very wide range of compounds that will not only offer that protection but also transfer heat and transmit light.

For the general potting and encapsulation of electronic components ACC have many products available. A range of hardness's enable careful product selection to ensure that components are not damaged by thermal expansion during extreme temperature cycling.

### Products:

- UL 94 V-0 Approved
- Opaque and Optically Clear
- Range of Hardness's
- RTV and Heat Cured
- High Temperature to + 300 °C

## Silicone Gels

Silicone gels now perform key roles within many electronic and lighting applications. Their soft resilience provides protection from vibration and shock without stressing delicate components. Optically clear gels with high refractive indexes improve light transmission in LED's and PV Modules.

### Silicone Gel Features:

- Optically Clear
- Low Viscosity
- RTV and Heat Cured
- Thermally Conductive

## SILCOTHERM® Thermal Transfer Materials

The transfer of heat away from sensitive components is a key design requirement within many electronic applications. ACC Silicones technicians have formulated a wide range of thermally conductive materials which can be used for bonding, sealing and encapsulating components.

### SILCOTHERM® Product Types & Features:

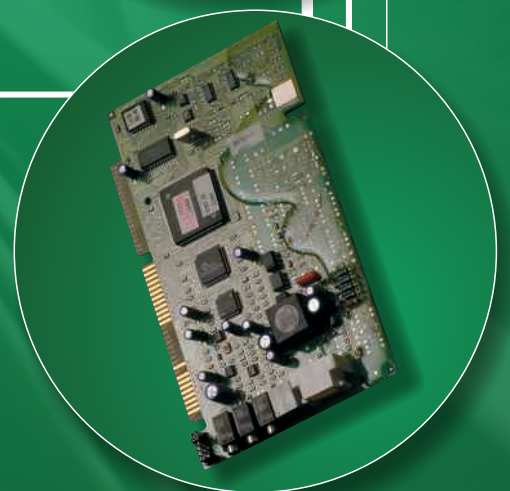
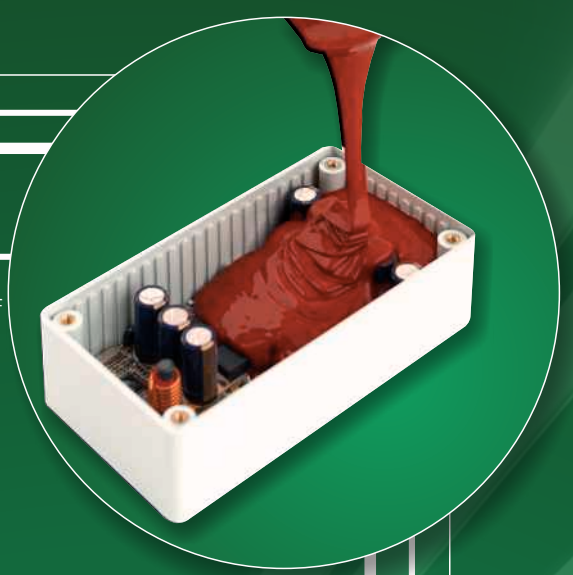
- High W/mK Values
- Adhesives
- Potting Compounds
- Gap Fillers
- Non-Curing Pastes
- RTV and Heat Cured
- 1 & 2 Part Materials

## Conformal Coatings

For protection of PCB boards our range of Coatings include Acrylic and Silicone. Room temperature cure 100% solids Silicone coatings are environmentally friendly and cure without the use of expensive ovens.

### Product Features

- Low viscosities
- UV Trace for visual identification
- Solvent free materials

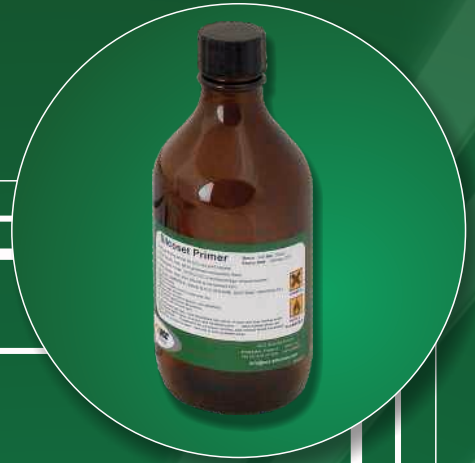


## Silicone Primers

For difficult substrates or very demanding operating conditions the use of a suitable primer is recommended to improve adhesion. ACC Silicones have produced a comprehensive guide to primer and sealant selection and this is freely available on request or by visiting our web site.

### ACC Primers can be used with the following materials

- 1 & 2 Part silicone elastomers
- Addition and Condensation cure systems
- Most plastics, wood, metals and glass



## Silicone Grease

Silicone greases are very durable and may be used to lubricate rubber, plastic and metal to rubber or plastic interfaces. They provide excellent protection against moisture and other harsh environmental conditions and high voltage insulation. Some are approved for use in aerospace, MOD and with potable water.

- High Voltage Insulation
- Thermally Conductive
- Water potable
- NATO Approved



## Twin Pack Sachets

Easy to use, twin pack sachets, the affordable solution for users that want to avoid the use of scales and mixing equipment. Simply remove the clip, mix and pour.

### Benefits

- No Mixing equipment required
- Guaranteed correct mix ratio
- Clean and simple to use
- Minimum wastage



## Twin Pack Adhesives

ACC Silicones have produced two component accelerated cure adhesives which are supplied in a 10:1 cartridge system. The silicone is thoroughly mixed using a disposable static mixer with a specially designed gun.

### Benefits

- Fast cure times
- Robust gun
- Guaranteed correct mix ratio
- Clean and simple to use



# ACC Silicones have been manufacturing silicone compounds for over 35 years

ACC Silicones have been manufacturing silicone compounds for over 35 years and has gained an enviable reputation for proven performance and quality with materials being certified for use in the most demanding applications within the aerospace industry. Much of ACC's research work has been focused on Electrical and Electronic applications developing coatings, thermal transfer compounds and non-corrosive sealants. Our customer focused development program and flexible-manufacturing plant enables us to keep pace with the needs of today's modern production methods and design requirements. Qualified, experienced sales and technical staff are readily available to make site visits and advise on product selection and production methods. ACC Silicones group of companies has grown over recent years to include technical research and production facilities in the UK, mainland Europe and the US. Our expertise extends into all areas of 1 and 2-Part RTV silicone chemistry, with a strong bias towards application-based solutions.

## Bespoke Production Facilities

Our flexible facilities based upon batch production allow us to offer formulations to meet very specific application requirements. Subject to strict commercial evaluation we are able to chemically engineer our products and change the following properties.

- Rheology: paste to free flowing low viscosity
- Cure speed and tack free times
- Thermal conductivity
- Hardness
- Colour
- Operating temperature range
- Cure mechanism
- Packaging and delivery systems



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### Other ACC Companies

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