

World Class Silicones for Worldwide Solutions

1-Part Silicone Adhesive Sealants

Potting and Encapsulation Compounds

Thermal Transfer

Conformal Coatings

High Purity Cleaners

Greases, Primers and Digester



acc[®]
silicones



1-Part Adhesive Sealants

ACC Silicones have over 20 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, Photovoltaic's, Lighting & LED's, Automotive, 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.



Cure Mechanisms

Acetoxo

- Quick skin time
- Good physical properties
- Excellent un-primed adhesion to most substrates
- High temperature performance

Oxime

- Good adhesion to most substrates including many plastics
- Low corrosive properties
- Low odour

Alkoxy

- Completely neutral cure non-corrosive
- Excellent un-primed adhesion
- Ideal for use with sensitive materials
- Good dielectric properties

Neutral Cure (Acetone - Solvent Free)

- Completely neutral cure non-corrosive
- Excellent un-primed adhesion
- High temperature performance
- Good dielectric properties
- Fast tack free and cure times

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 oxidation and many oils, chemicals and solvents
- Excellent bonding to a wide range of substrates

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.

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.



Adhesive

Electronic Grades

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

Mil-A-46146B Grades

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

Photovoltaic Range

ACC have a PV range which is particularly suited to applications and substrates found within the Solar and Photovoltaic markets. See separate literature or visit our web site for more information.

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.

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.

Applications

- High voltage insulation
- Thermal transfer
- Plastic/Rubber lubrication
- Gas pipes, water fittings
- Plastic/metal lubrication
- Mould release

Potting and Encapsulation Compounds

Modern electronic components require protection from vibration, harsh environmental conditions and excessive heat.

Products available include:

- RTV and Heat Cured
- Thermally Conductive
- Silicone Gels
- Opaque and Optically Clear
- UL94 V-0
- Range of Hardness's

Coatings

Conformal coatings for PCB protection in critical applications, available in both bulk and aerosol.

- 100% Solids Silicone
- Polyurethane
- Acrylic

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.



High Purity Cleaners

For the preparation and cleaning of PCB's, components and the maintenance of production equipment.

- Water based
- High Solvency
- Bulk and Aerosol
- Concentrates



Thermal Transfer

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.

- 1-Part Adhesive Sealants
- Up to 4.00W/mK
- 2-Part Encapsulants
- Non Setting compounds
- Gap filler materials



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ACC Silicones have been manufacturing silicone compounds for over 20 years

ACC Silicones have been manufacturing silicone compounds for over 20 yrs 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**
- **Own label**

Focused R&D on electrical and electronics Applications throughout the world





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