WORLD CLASS SILICONES FOR WORLDWIDE SOLUTIONS

SILICONE ADHESIVE SEALANTS
POTTING & ENCAPSULATION COMPOUNDS
THERMAL TRANSFER MATERIALS
CONFORMAL COATINGS
GREASES & PRIMERS
CHT have over 40 years’ experience manufacturing 1-Part adhesives for high performance applications. Using a variety of cure mechanisms, modifications can be made to the rheology, hardness, elasticity, cure speed, extrusion rate and compatibility with substrates.

Industries served:
Aerospace, Electronics, Automotive, Photovoltaics, Lighting & LEDs, Food Processing, Offshore, Construction, Textiles, Medical, Marine, Solar, Rail, and Utilities

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

PHOTOVOLTAIC ADHESIVES
CHT adhesives are particularly well suited to the applications found in the Solar and Photovoltaic markets. These materials are neutral cure with excellent adhesion to the substrates used in PV manufacturing.

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

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
- High Temperature to +300°C
- Thermally Conductive
- RTV and Heat Cured
Modern electronic components require protection from vibration, harsh environmental conditions and excessive heat. CHT have a very wide range of compounds that will not only offer that protection but also transfer heat or transmit light.

**POTTING AND ENCAPSULATION COMPOUNDS**

CHT have many products available for the general potting and encapsulation of electronic components. A range of hardnesses enable careful product selection ensuring that components are not damaged by thermal expansion during extreme temperature cycling.

**SILICONE GELS**

Silicone gels now perform key roles within many electronic and lighting applications. They are soft and resilient providing 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.

**SILCOTHERM® THERMAL TRANSFER MATERIALS**

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

**SILCOSET® BRAND**

The Silcoset® trade name is well respected within the aerospace industry as a high-performance range of silicone materials, including adhesive sealants and potting compounds. Major OEM’s have approved these materials for use within their products.
**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.

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

CHT primers can be used with:
- 1 & 2 Part silicone elastomers
- Addition and Condensation cure systems
- Most plastics, wood, metals and glass

<table>
<thead>
<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>High strength</td>
</tr>
<tr>
<td>Fast cure and skinning times</td>
</tr>
<tr>
<td>Wide Temperature -60°C to +316°C</td>
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<tr>
<td>Flowable and Paste</td>
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</table>

**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 ADHESIVES**
CHT 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.

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

**CONFORMAL COATINGS**
For protection of PCB boards our range of coatings include acrylic and silicone. Room temperature cure coatings have 100% solids. Silicone coatings are environmentally friendly and cure without the use of expensive ovens.

- Low viscosities
- UV Trace for visual identification
- Solvent free materials
- Excellent adhesion
CHT have acquired an enviable reputation for producing high quality specialist chemicals which have been proven to perform to the highest standards in the most demanding applications. With the acquisition in 2017 of the ICM Silicones group, including ACC Silicones Ltd, Quantum Silicones and ICM Products, they have further enhanced their capabilities, industry knowledge and global reach within the silicone market. Key industries serviced include the aerospace, electronics and automotive industries.

CHT have extensive R&D facilities located throughout the world and much of our research work is focused on electrical and electronic applications developing coatings, thermal transfer compounds and neutral cure sealants. Our customer focused development programme and flexible production facilities enable 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 to advise on product selection and production methods. Our expertise extends into all areas of 1 and 2 part RTV silicone chemistry with a strong bias towards application based solutions.

The enlarged CHT silicones expertise enables our customers to benefit from technical and manufacturing support within Europe, China and the USA.

BESPOKE SERVICE
Our adaptable facilities based upon batch production allow us to offer formulations developed to meet very specific application requirements. Subject to strict commercial evaluation we can chemically engineer our products and change any of 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

We are CHT, Smart Chemistry with Character. Together with ICM, ACC and QSI we are the most customer centric specialty silicones expert. We are committed to finding your individual solution.

CHALLENGE US NOW!

Get in touch with us! silicone-experts.cht.com
### Adhesive Sealants

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Type</th>
<th>Rheology</th>
<th>Viscosity mPa.s</th>
<th>RTV or Heat cure</th>
<th>Colour</th>
<th>Min Working Temp -/°C</th>
<th>Max Working Temp +/°C</th>
<th>Duro Sh A</th>
<th>Tensile MPa</th>
<th>Elongation %</th>
<th>Tack Free Time mins</th>
<th>Max Cure 3mm Hrs @25°C</th>
<th>Thermal Conductivity W/m/K</th>
</tr>
</thead>
</table>

#### 1-Part Silcoset Adhesive Sealants

- **Silcoset 151** Acetoxy Self Level 210000 RTV White -60 300 43 2.93 180 10 <12 0.20
- **Silcoset 152** Acetoxy Paste RTV White -60 300 40 2.31 240 2 7 0.20
- **Silcoset 153** Acetoxy Paste RTV Trans -60 250 39 2.32 280 4 7 0.20
- **Silcoset 158** Acetoxy Paste RTV Black -60 300 38 2.30 290 4 7 0.20

#### 1&2 Part Industrial Adhesive Sealants

- **Alpatec** 566320 Acetoxy Flowable 8500 RTV Black -50 200 15 0.35 350 16 24 0.20
- **AS1500** Acetoxy Paste RTV White -50 300 39 2.40 270 3 7 0.20
- **AS1502** Acetoxy Paste RTV Grey -50 300 52 3.00 205 4 7 0.20
- **AS1504** Acetoxy Paste RTV Red -50 300 35 2.50 410 4 7 0.20
- **AS1523** Acetoxy Flowable 70000 RTV Trans -50 250 25 4.90 655 11 <14 0.20
- **AS1524** Acetoxy Flowable 60000 RTV White -50 250 24 5.00 600 10 <14 0.20
- **AS1525** Acetoxy Flowable 60000 RTV Trans -50 250 30 1.00 190 7 <24 0.20
- **AS2500** Acetoxy Paste RTV Black -65 250 39 2.32 280 4 1.5 0.20
- **AS2502** Acetoxy Paste RTV Red -65 250 30 1.5 260 4 <1 0.20

#### 1-Part Low Corrosive Industrial Sealants

- **AS1603** Oxime Paste RTV Trans -50 220 33 2.15 300 5 12 0.20
- **AS1604** Oxime Paste RTV Black -50 240 50 2.00 250 3 <12 0.30
- **AS1606** Oxime Paste RTV Trans -50 220 25 1.50 530 8 10 0.20
- **AS1607** Oxime Paste RTV White -50 220 70 2.90 70 1 <9 1.58
- **AS1620** Oxime Flowable 26000 RTV Trans -50 220 25 2.00 400 14 <24 0.20
- **AS1621** Oxime Flowable 24000 RTV White -50 230 24 2.00 410 19 <24 0.20
- **AS1622** Oxime Flowable 23500 RTV Black -50 275 24 1.90 390 13 <24 0.20
- **AS1623** Oxime Flowable 60000 RTV Red -65 250 24 1.20 180 19 24 0.20
- **AS1626** Oxime Flowable 24000 RTV Trans -50 200 28 2.17 156 10 24 0.20

#### 1&2 Part Non-Corrosive Neutral Cure Adhesive Sealants (Electronic Grades)

- **AS1402** Addition Paste | Heat Cured | Trans -50 200 30 1.50 295 0.20
- **AS1420** Addition Flowable 43000 | Heat Cured | Grey -50 260 67 3.10 70 1.38
- **AS1421** Addition Paste 140000 | Heat Cured | Grey -50 210 56 2.20 105 2.10
- **AS1700** Oxime Paste RTV Trans -50 200 30 2.43 545 10 36 0.20
- **AS1701** Oxime Paste RTV Black -50 220 52 2.35 200 3 24 0.60
- **AS1721** Oxime Paste Self Level 95000 | RTV Black | 50 200 27 1.21 320 10 <36 0.20
- **AS1723** Oxime Flowable 72000 | RTV Black | 50 200 28 1.00 216 11 24 0.20
- **AS1726** Oxime Flowable 3100 | RTV Trans -62 200 36 1.52 141 10 24 0.20
- **AS1740** Oxime Self Level 40000 | RTV Trans -62 200 27 1.80 400 18 <72 0.18
- **AS17450** Oxime Paste 316 | RTV Grey -62 316 35 7.75 830 45 <36 0.20
- **AS17451** Oxime Paste 24000 | RTV Grey -62 260 35 6.90 775 45 <36 0.20
- **AS2700** Oxime Paste RTV Grey -50 200 39 2.05 240 20 <1 0.30
- **AS2701** Oxime Paste RTV Black -50 200 65 1.93 80 12 <1 1.55
- **AS1800** Acetone Paste RTV White -50 220 35 2.20 388 2 <24 0.20
- **AS1802** Acetone Self Level 35000 | RTV Grey -50 220 67 3.90 103 4 <8 2.30
- **AS1803** Acetone Self Level 35000 | RTV White -50 220 65 2.80 94 4 <8 1.55
- **AS1805** Acetone Paste RTV Red -50 300 50 1.70 270 4 8 0.20
- **AS1810** Acetone Paste RTV Black -50 220 35 1.81 353 4 <24 0.19
- **AS1820** Acetone Flowable 30000 | RTV Black -50 220 30 1.10 330 6 16 0.20
- **AS1850** Acetone Flowable 20000 | RTV Black -50 220 27 0.85 200 10 <24 0.20

#### 1-Part General Purpose Sealants

- **AS5600** Oxime Paste RTV Various -50 180 28 1.12 530 7 <12
- **AS5700** Oxime Paste | RTV White -60 200 34 2.00 580 15 24
- **AS5701** Oxime Paste | RTV Black -60 260 37 2.40 450 10 24
- **AS5702** Oxime Paste RTV Trans -60 200 24 2.70 540 15 24
- **AS5720** Oxime Self Level 80000 | RTV White -60 200 20 1.50 450 25 24
- **AS5721** Oxime Self Level 100000 | RTV Black -60 260 30 1.50 450 25 24
- **AS5722** Oxime Slumping Paste 220000 | RTV White -60 200 25 1.52 450 25 24

### Silicone Greases

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Properties</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SG3M94</td>
<td>Silicone Grease</td>
<td>Water Potable, High Performance</td>
<td>MOD approved XG250. Insulation and protection</td>
</tr>
<tr>
<td>SG3M96</td>
<td>Silicone Grease</td>
<td>High voltage insulator</td>
<td>Excellent dielectric properties</td>
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</table>

We are CHT, Smart Chemistry with Character. Together with ICM, ACC and GS we are the most customer-centric specialty silicone expert. We are committed to finding your individual solution.

**CHALLENGE US NOW!**

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