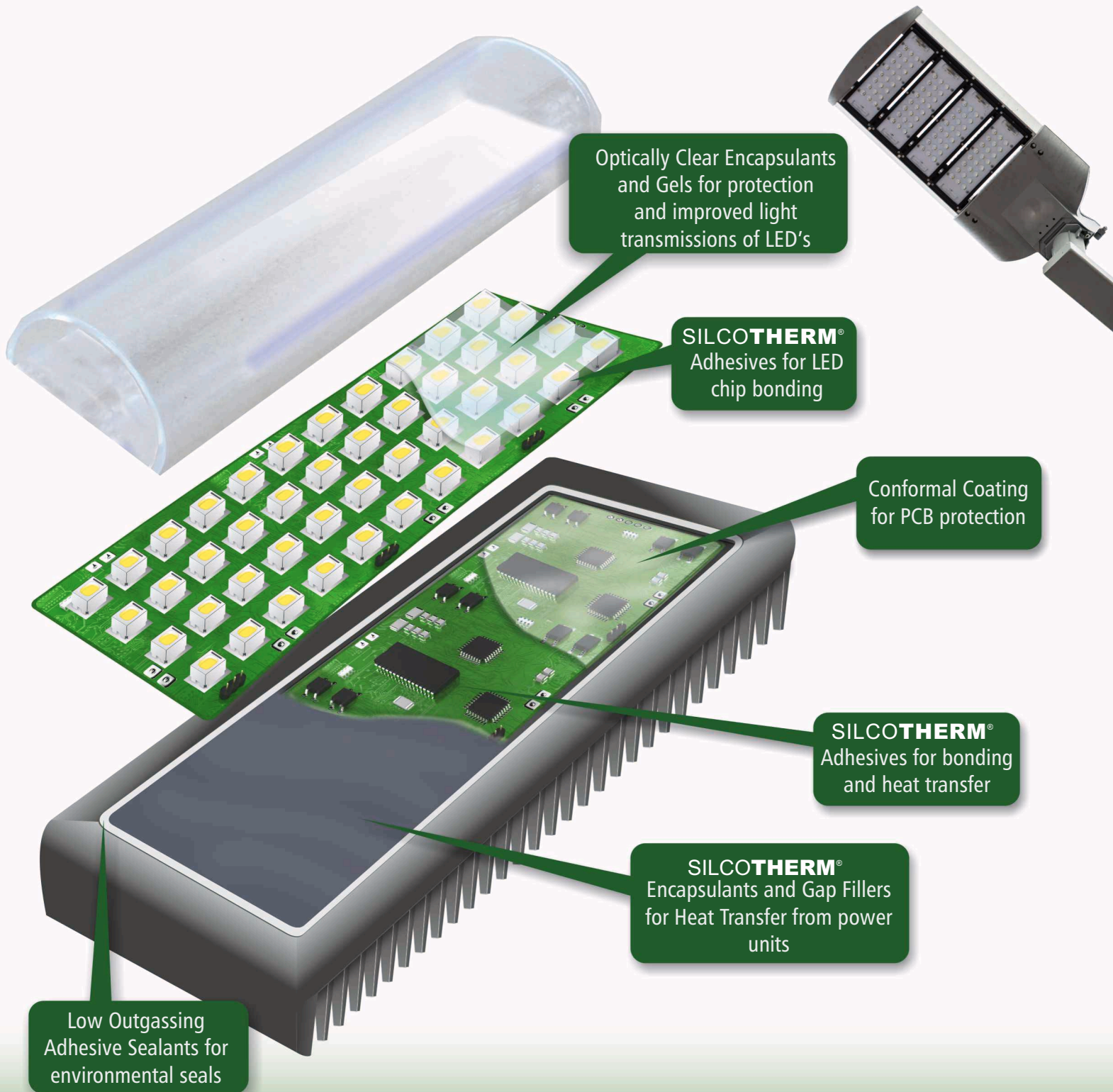




LED LIGHTING APPLICATIONS



Low Outgassing
Adhesive Sealants for
environmental seals

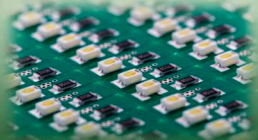
Optically Clear Encapsulants
and Gels for protection
and improved light
transmissions of LED's

SILCOTHERM®
Adhesives for LED
chip bonding

Conformal Coating
for PCB protection

SILCOTHERM®
Adhesives for bonding
and heat transfer

SILCOTHERM®
Encapsulants and Gap Fillers
for Heat Transfer from power
units





LED LIGHTING APPLICATIONS



ACC Silicones have formulated specialised silicone materials for use in all areas of LED and lighting from chip bonding to large module assemblies. ACC have formulated silicones which are known for their temperature and UV resistance and created optically clear encapsulants, low outgassing adhesives sealants, conformal coatings and the extensive range of **SILCOTHERM®** Thermal Interface Materials including Gap Fillers and high strength adhesives.

SILCOTHERM® THERMALLY CONDUCTIVE MATERIALS

| Product | Viscosity | Rheology | Colour | Cure | UL Approved | Min Temp °C | Max Temp °C | Hardness Shore A | Thermal Conductivity |
|--|-----------|------------|--------|----------------------|-------------|-------------|-------------|------------------|----------------------|
| 1-Part Adhesive Sealants | | | | | | | | | |
| AS1420 | 43000 | Flowable | Grey | Heat Cured | | -50 | 260 | 67 | 1.38 W/mK |
| AS1421 | 140000 | Paste | Grey | Heat Cured | Yes | -50 | 210 | 56 | 2.10 W/mK |
| AS1607 | | Paste | White | RTV | | -50 | 220 | 70 | 1.58 W/mK |
| AS1701 | | Paste | Black | RTV | Yes | -50 | 220 | 52 | 0.60 W/mK |
| AS1802 | 350000 | Self Level | Grey | RTV | | -50 | 220 | 67 | 2.30 W/mK |
| AS1802 B | 350000 | Self Level | Black | RTV | Yes | -50 | 220 | 67 | 2.30 W/mK |
| AS1803 | 350000 | Self Level | White | RTV | | -50 | 220 | 65 | 1.55 W/mK |
| 2 Part Adhesive Sealants (10:1 Mix Ratio) Fast Cure | | | | | | | | | |
| AS2701 | | Paste | Black | RTV | | -50 | 200 | 64 | 1.55 W/mK |
| Gap Fillers | | | | | | | | | |
| SE2010 | 320000 | Paste | Black | Heat Accelerated RTV | Yes | -60 | 200 | 50 | 1.70 W/mK |
| Encapsulants & Potting materials | | | | | | | | | |
| QSi553 | 6000 | Liquid | Grey | Heat Accelerated RTV | Yes | -55 | 260 | 45 | 0.68 W/mK |
| QSi573 | 6000 | Liquid | Grey | Heat Accelerated RTV | Meets | -50 | 200 | 65 | 1.19 W/mK |
| SE2003 | 35000 | Liquid | Red | Heat Accelerated RTV | | -50 | 250 | 80 | 1.27 W/mK |
| SE3000 | 1950 | Liquid | Orange | Heat Accelerated RTV | Pending | -70 | 250 | 40 | 1.20 W/mK |
| EGel3100 | 29000 | Liquid | Grey | Heat Accelerated RTV | | -55 | 200 | Gel | 1.55 W/mK |

OPTICALLY CLEAR ENCAPSULANTS & GELS

| Product | Viscosity | Cure | Cure @25°C | Cure @100°C | Min Temp °C | Max Temp °C | Hardness Shore A |
|-------------|-----------|-----------|------------|-------------|-------------|-------------|------------------|
| QSi12 | 1100 | RTV | 16hrs | N/A | -50 | 220 | 19 |
| QSi216 | 4500 | RTV | 20hrs | 60min | -60 | 204 | 40 |
| QSi218 | 3000 | RTV | 24hrs | 60min | -60 | 204 | 59 |
| QSi222 | 2200 | Heat Cure | N/A | 120min | -60 | 200 | 40 |
| QSi229 | 2900 | Heat Cure | N/A | 120min | -60 | 200 | 65 |
| QLE1102 | 2000 | RTV | 24hrs | 30min | -50 | 200 | 45 |
| Gels | | | | | | | |
| EGel3000 | 630 | RTV | <24hrs | 60min | -55 | 200 | Gel |
| EGel3002 | 2000 | RTV | <24hrs | 30min | -55 | 200 | Gel |
| EGel3005 | 630 | RTV | 0.25hrs | | -50 | 200 | Gel |

LOW OUTGASSING ADHESIVE SEALANTS

| Product | Viscosity | Rheology | Colour | Cure | Min Temp °C | Max Temp °C | Hardness Shore A |
|---------|-----------|----------|--------|------|-------------|-------------|------------------|
| AS1703 | | Paste | Trans | RTV | -62 | 200 | 34 |
| AS1704 | | Paste | Black | RTV | -62 | 250 | 34 |
| AS1724 | 44000 | Flowable | Trans | RTV | -62 | 200 | 19 |
| AS1725 | 47000 | Flowable | Black | RTV | -62 | 250 | 19 |

CONFORMAL COATINGS

| Product | Viscosity | Type | UV | Cure | Min Temp °C | Max Temp °C | Feature |
|---------|-----------|----------|-----|------------|-------------|-------------|-------------------------|
| ACC11 | 300 | Acrylic | Yes | Air Drying | -55 | 130 | Acrylic |
| ACC15 | 1180 | Silicone | Yes | RTV | -55 | 200 | Solvent Free |
| ACC16 | 500 | Silicone | Yes | RTV | -50 | 200 | Solvent Free |
| ACC17 | 400 | Silicone | Yes | RTV | -50 | 200 | Solvent Free |
| AS1726 | 3100 | Silicone | No | RTV | -62 | 200 | Low Outgas Solvent Free |

UK
ACC Silicones Limited
Amber House,
Showground Road
Bridgwater, TA6 6AJ
Tel: +44 (0) 1278 411411
Fax: +44 (0) 1278 411444

Italy
Trecò s.r.l.
Via Romagna 8
Sesto Ulteriano (MI) 20098
Milan, Italy
Tel: +39 02 988 0913
Fax: +39 02 9828 0413

Germany
Pommernstrasse 12
53119 Bonn
Germany
Tel: +49 (0)228 2497371
Fax: +49 (0)228 2497372

Czech Republic
Turanka 115
627 00 Brno
Czech Republic
Tel: +420 532 123 258
Fax: +420 532 123 259

acc silicones europe

www.acc-silicones.com
E-mail: info@acc-silicones.com

PART OF THE ICM SILICONES GROUP