

## TECHSIL<sup>®</sup> RTV1084G

TECHSIL<sup>®</sup> RTV1084G is a non-corrosive, 1-part, room temperature vulcanising (RTV) silicone rubber. It is one of a new family of products called acetone cure sealants that are solvent free. It exhibits excellent primerless adhesion to many substrates. The product is cured rapidly in contact with atmospheric moisture to a tough rubber. It does not corrode copper or its alloys and exhibits excellent primerless adhesion when fully cured.

### Key Features

- Excellent thermal conductivity
- Non corrosive
- Fast skinning
- Low linear shrinkage

### How to Use

TECHSIL<sup>®</sup> RTV1084G is ready for use. If supplied in cartridges it can be applied using either manual or pneumatic dispensers.

It can also be applied from bulk containers using conventional drum dispensing equipment.

### Application and Cure

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dirt and loose material.

Priming of surfaces is not normally required.

If TECHSIL<sup>®</sup> RTV1084G is being employed as an adhesive, it should be applied to one clean surface and the other clean surfaces brought into contact with it within 15 to 20 seconds.

For optimum bond strength the thickness of the sealant joint is 1 to 2mm.

Joints should be left undisturbed or at least 24hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

### Health and Safety

Safety Data Sheets are available on request.

### Packages

310ml cartridge and 25kg pails. Please contact your regional sales representative for additional packaging options.

### Storage and Shelf Life

Expected to be 12 months in original, unopened containers when stored at <40°C.

## Contact Details

Techsil Ltd  
Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN  
Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk

**Physical Properties**

Property	Test Method	Value
<b>Uncured Product</b>		
Colour:		Grey
Appearance:		Grey Paste
Viscosity:	Brookfield	350000 mPa.s
Tack Free Time:		4 minutes *
3mm Cure Through:		<8 hours *

\* measured at 23+/-2°C and 65% relative humidity

<b>Adhesion Testing</b>		
Overlap Shear Strength:	ASTM D 1002	Kg/cm <sup>2</sup>
Copper		3.60
Aluminium		7.15
Stainless Steel 304		2.98

<b>Cured Elastomer</b>		
(after 7 days cure at 23+/-2°C and 65% relative humidity)		
Tensile Strength:	BS903 Part A2	3.90MPa
Elongation at Break:	BS903 Part A2	103%
Hardness:	ASTM D 2240-95	67 Shore A
Specific Gravity:	BS903 Part A1	2.11
Linear shrinkage:		0.5%
Thermal Conductivity:		2.30 W/mK
Coefficient of Thermal Expansion:		
Volumetric		493 ppm / °C
Linear		164 ppm / °C
Min. Service Temperature:		-50°C
Max. Service Temperature:	AFS 1540B	220°C

<b>Electrical Properties</b>		
Volume Resistivity:	ASTM D-257	1x10 <sup>14</sup> Ω.cm
Dielectric Strength:	ASTM D-149	20kV/mm
Dielectric Constant at 1MHz:	ASTM D-150	4.90
Dissipation Factor at 1MHz:	ASTM D-150	0.9x10 <sup>-3</sup>
Comparative Tracking Index (CTI)		
Expected to be >600 volts (PLC 0)		

Customers are advised to carry out their own tests on clean, degreased substrates to ensure satisfactory adhesion is achieved.

Stress cracking can appear on some grades of polycarbonate. Customers are advised to carry out initial testing to ensure product compatibility.

All values are typical and should not be accepted as a specification.

**DISCLAIMER**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. **Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.**

**Contact Details**

Techsil Ltd  
 Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN  
 Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk