

TECHSiL[®] RTV UV SERIES SILICONES

TECHSiL[®] RTV UV Series Silicones are one-component UV curable silicone sealing materials. They can be selectively dispensed on display modules and can also provide flowability to penetrate tight spaces. TECHSiL[®] RTV UV Series Silicones features a UV cure formulation that enables faster cure and physical stability with exposure to UV light, followed by a secondary room temperature or thermal cure mechanism that gradually improves adhesion to the substrate. The secondary cure feature also can help achieve more complete cure in shadow areas where UV light penetration is limited. TECHSiL[®] RTV UV Series Silicones have soft post-cure properties that can contribute to stress-relief of delicate electronics components.

Features

- Convenient, one-part solution
- Fast UV primary cure, which can contribute to reduction in cycle times
- Provides good electrical properties

Typical Uncured Physical Properties

Uncured Property	unit	RTV19126	RTV19042	RTV19129	RTV19131
Appearance		Trans	Trans	Trans	Trans
Viscosity (20 rpm)*1	Pa.s	3.5	12.5 (Paste)	5.5	7
Thixotropic index*1		1.0	-	-	-
Primary Cure(UV) LED 365 nm		5,000 mJ/cm2	5,000 mJ/cm2	5,000 mJ/cm2	5,000 mJ/cm2
Secondary Cure 50% RH		25°C for 3days	25°C for 3days	25°C for 3days	25°C for 3days
Density	g/cm3	1.01	1.01	1.01	1.01
Hardness	Shore A	26	42	30	30
Tensile strength	MPa	1.1	2.5	1.3	1.4
Elongation	%	150	150	150	150
Adhesion strength*2	MPa	1.0	1.5	-	-
Tack free time by only moisture, without UV	min	30	30	30	30
Low Volatile Siloxane	pm (D4~D10)	<300	<300	<300	<300
Shelf life*3	month	9	9	9	9

Note: The above technical information and data should be considered representative or typical only and should not be used for specification purposes.

1: viscosity – 20 rpm, Rheometer, Thixotropic Index – 10 rpm /20 rpm, Rheometer

2: Glass, FR-4 Lap shear

3: storage condition sealed at 5°C

General Considerations for Use

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. Contained in the surface of the substrate can inhibit curing.
- A sample patch should always be tested prior to proceeding in order to determine compatibility.
- All parts should be as clean and dry as possible prior to application.
- Eye protection and protective gloves should be always worn when working with this product.
- Always maintain adequate ventilation in the workplace.
- Keep out of the reach of children.

Storage

- Store in a cool dry place out of direct sunlight
- Shelf life at below 5°C is 9 months

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

Available Package

- 300ml Cartridge
- 50ml EFD Syringe

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Centre. Please review and follow the safety information provided by the manufacturer of such other materials.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience the TECHSiL believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond TECHSiL's control and uniquely within users' knowledge and control can affect the used and performance of a TECHSiL product in a particular application. Given the variety of factors that can affect the use and performance of a TECHSiL product, the user is solely responsible for evaluating the TECHSiL product and determining whether it is fit for a particular purpose and suitable for the user's methods of application.

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