TECHSIL® TIM11150 (GB)

Techsil® TIM11150 (GB) 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.
Techsil® TIM11150 (GB) contains glass beads at 50 microns particle size for self-gapping applications

Key Features

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

Use and Cure Information

Techsil® TIM11150 (GB) 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® TIM11150 (GB) is being employed as an adhesive, it should be applied to one clean surface and the other clean surface 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 for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

Product Information

Property	Test Method	Value
Uncured Product		
Colour:		Grey
Appearance:		Grey Paste
Viscosity:	Brookfield	350000 mPa.s
Tack Free Time:		4 minutes *
3mm Cure Through: * measured at 23+/-2°C and 65% relative humidity.		<8 hours *
Cured Elastomer **(after 7 days cure at 23+/-2°C and 65% relative humidity)**		
Tensile Strength:	BS903 Part A2	3.90 MPa
Elongation at Break :	BS903 Part A2	103 %
Hardness:	ASTM D 2240-95	67 Shore A
Specific Gravity:	BS 903 Part A1	2.11
Linear Shrinkage:		0.5 %
Thermal Conductivity:		2.30 W/mK
Coefficient of Thermal		
Expansion:		
Volumetric		93 ppm / °C
Linear		164 ppm / °C
Min. Service Temperature:		-50 °C
Max. Service Temperature:	AFS 1540B	220 °C
Electrical Properties		
Volume Resistivity:	ASTM D-257	$1x10^{14}$ Ω.cm

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

Dielectric Strength:	ASTM D-149	20 kV/mm
Dielectric Constant at 1MHz	ASTM D-150	4.90
Dissipation Factor at 1MHz:	ASTM D-150	0.9x10-3
Comparative Tracking Index (CTI)		
Expected to be >600 volts (PLC 0)		
Adhesion Testing		
Overlap Shear Strength:	ASTM D 1002	kg/cm2
Copper		3.60
Aluminium		7.15
Stainless Steel 304		2.98

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

Health and Safety – Material Safety Data Sheets available on request

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

Storage and Shelf Life – Expected to be 12 months in original, unopened containers when stored at <40°C

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