

## TECHSIL® RTV12120 CLEAR

Techsil® RTV12120 is a one-component, fast cure, non-corrosive silicone adhesive sealant that cures on exposure to atmospheric moisture to form an elastic silicone rubber. RTV12120 has excellent corrosion free adhesion to metals, including copper, plastics, ceramics, glass, etc. without the use of primers.

### Key Features and Benefits

- Non-corrosive to metals: meets MIL-A-46146B corrosion test
- Fast cure
- Low odour; releases an alcohol vapour during cure
- Primerless adhesion to many substrates
- Excellent high and low temperature resistance: from -55°C to 200°C
- Excellent weatherability, ozone, and chemical resistance
- Excellent electrical insulation properties
- UL94 HB recognized (File No: E56745)
- Simple and easy-to-use one-component system

### Uncured Properties:

Appearance:	Flowable paste
Viscosity (23°C) Pa•s {P}:}	50 {50}
Tack Free Time (23°C) min:	10
Corrosion (MIL-A-46146B):	None

### Cured Properties (7 days @ 23°C, 50%RH):

Appearance:	Elastic rubber
Density (23°C), g/cm <sup>3</sup> :	1.04
Hardness (Type A):	13
Techsil Strength MPa {kgf/cm <sup>2</sup> }:	1.2 {12}
Elongation, %:	360
Adhesive Strength*1 MPa {kgf/cm <sup>2</sup> }:	1.0 {1.0}
Thermal Conductivity*2 W/(m.K):	0.18
Volume Resistivity MΩ•m {Ω•cm}	2.0x10 <sup>7</sup> {2.0x10 <sup>15</sup> }
Dielectric Strength kV/mm:	22
Dielectric Constant (60 Hz):	2.9
Dissipation Factor (60 Hz):	0.005

\*1 Aluminium lap shear\*2 In-house test method. Typical property data values should not be used as specifications.

### Potential Applications:

Insulating adhesive seal and fixing for electrical and electronic parts. Waterproof sealant for electrical, electronic and communication equipment General adhesive for metals, glass, plastics, etc.

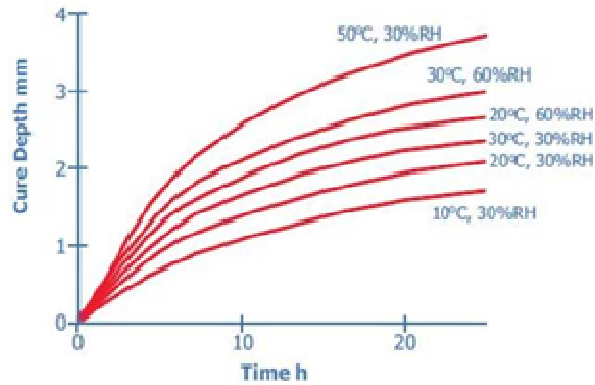
### Contact Details

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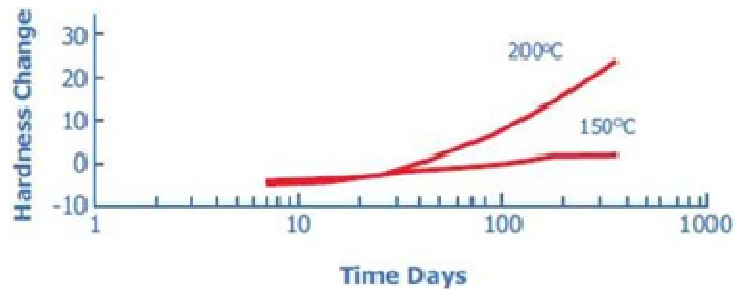
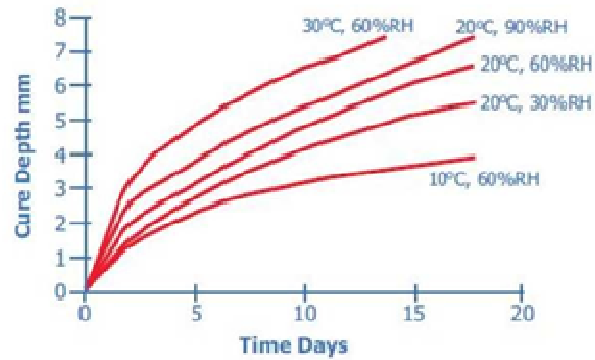
**Curing Properties**

**Heat Resistance**

**Short-term**

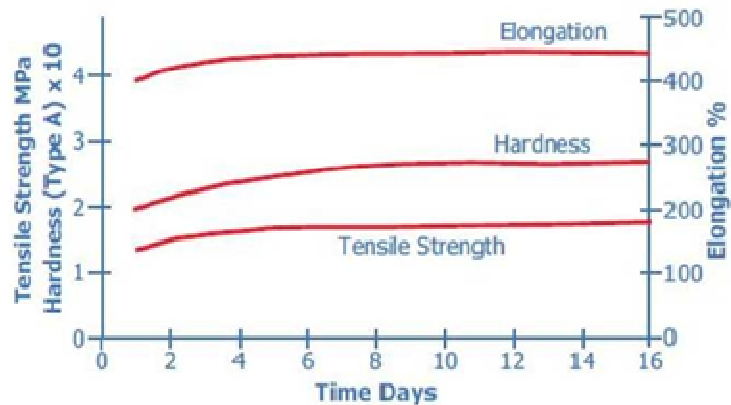


**Long-term**



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Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a 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:

- Wear eye protection and protective gloves as required while handling the product.
- Maintain adequate ventilation in the work place at all times.
- Store in a cool dry place out of direct sunlight.
- Keep out of the reach of children.

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available from Techsil. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available from Techsil.** Use of other materials in conjunction with this product (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

#### 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.

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