

RTV 922

High Performance Industrial Silicone Sealant

Technical Data Sheet

DESCRIPTION

Bostik RTV 922 is a one component, acetic cure, high strength, high modulus industrial grade silicone sealant. It cures by absorption of atmospheric moisture to form a flexible and durable elastomeric sealant.

Bostik RTV 922 cures rapidly to an even consistent silicone rubber. Because of its superior adhesion to most substrates, it is extremely effective as a high temperature industrial silicone. It maintains its properties while in contact with a broad range of chemicals and over a broad temperature range.

SPECIAL FEATURES

- RTV Industrial Qualities.
- One component product.
- The thixotropic nature of this product ensures that it will not slump, sag or run off surfaces.
- Good resistance to weathering & moisture.
- Good resistance to motor oils and some chemicals.
- Excellent temperature range. (-50°C +235°C)
- Adheres to a variety of substrates.
- 100 % percent silicone rubber
- Meets the requirements of many industrial, mining, OEM applications.

TYPICAL USES

- Industrial and mining maintenance.
- Automotive maintenance.
- Makes formed-in-place gaskets for gear boxes, compressors and pumps
- Sealing of trailers and truck cabs
- Sealing gaskets in heating and refrigeration units
- Sealing of windows in oven doors (subject to temperature range of oven)
- Seals access doors on gas appliances.
- Bonding and sealing appliance parts
- Makes formed in place gasket for heavy industrial pipes and flanges.
- Sealing of joints in sheet metal stacks, duct work.
- Protecting components from moisture from frequent wash downs or weathering

ONE PART SYSTEM

Being a one-part industrial sealant – Bostik RTV 922 offers the confidence of consistent even cure. It also improves operator productivity, as time is not lost mixing the product, is easy to use in difficult locations, and can be applied using a standard cartridge gun.

LONG LIFE RELIABILITY

Bostik RTV 922 has excellent natural ageing stability. It will maintain its elastomeric joint sealant properties permanently, even under harsh conditions and temperature extremes



CHARACTERISTICS

Property	Mean Result	Achieved Test Method
Skin Time	6 Minutes	BS 5889
Tack Free Time	1.5 Hours	ASTM C679
Tooling Time	8 Minutes	ASTM C679
Sag or Slump	Nil	BS5889

CURED PROPERTIES

Property	Mean Result Achieved	Test Method
Shore A Hardness	23	ASTM C 661
Modulus at 100% Elongation	0.45 MPa	ASTM D 412
Tensile Strength	1.80 MPa	ASTM D 412
Elongation at Rupture	480%	ASTM D 412
Peel Strength after UV through Glass	62N/25mm	BS5889
Dynamic Movement Capacity	± 25%	ASTM C 920
Accelerated Ageing and Weathering	Excellent	ASTM C 792

TEMPERATURE

	Minimum	Minimum
Application Temperature	-10° C	+40° C
Service Temperature	-50° C	+235° C

Application of the sealant at + 5° C to + 35°C is permissible provided the surface to receive the silicone is dry and free of frost. The maximum service temperature listed is for transient temperatures; the silicone sealant will deteriorate if subjected to these temperatures on a continuous basis.

PACKSIZE / COLOURS

300grm -polyethylene cartridge.

661470 -Translucent

661460 - Black.

314382 - White

We can manufacture silicone sealants in almost any solid colour. (subject to volume)
To manufacture a special colour we need a sample of the required colour.

PACKAGING

The standard packaging for Bostik RTV 922 is 300grm cartridge.

20kg pails & 150grm are tubes MTO (Made to order.)

We can pack Bostik RTV 922 in many different containers, to suit your specific requirements, please contact your local agent for details of minimum order size, lead-time and dispensing methods.

STORAGE AND SHELF LIFE

Always store the RTV sealant in a cool dry place. Ideal storage temperature is not more than 25°C. Prolonged storage at high temperatures may affect shelf life and ultimate performance.

The shelf life of Bostik RTV 922 is 12 months from the date of manufacture when stored below 25°C and below 50% relative humidity.



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Compatibility with Adjacent Substrates

Silicones are not always compatible with plasticised sealants, such as butyls. Also some backing rods and bitumen or other agents may be incompatible with RTV silicone. The incompatibility may cause discolouration, poor sealant cure or long term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials occurs. (Bostik offers this service via our labs facilities for projects)

Application – Cleaning & Applying

Always ensure that the surfaces to be sealed are dry and free from oil, dirt and grease. Use the two-wipe process for impervious substrates. Ensure the cloths are clean and changed frequently, and use a suitable cleaner/solvent such as Z Bond® R-40, or IPA.

When extruding the sealant cut the nozzle to the desired width, cut the tip off the cartridge, and apply the sealant firmly to ensure good contact between the sealant and the substrate. Before the sealant has skinned, tool it off to ensure a good finish, and to improve the wetting out of the sealant to the substrate. Clean / wipe of excess sealant with clean cloth or polyethylene scraper. Masking tape can be used. (Masking tape must be removed before skin over starts). To achieve satisfactory adhesion a primer may be required for some substrates. (Consult Bostik or your distributor for more information).

LIMITATIONS

Bostik RTV 922 is NOT suitable for use in the following applications: -

- As the sealant requires atmospheric humidity to cure, it will not cure in totally confined spaces where there is an absence of these conditions.
- Adhering Mirrors
- Laminated Glass
- Reflective Glass
- Under Water Applications (Subject to substrate)
- Below Grade Applications
- Concrete, Cement, Masonry or any stones.
- Soft thin metals, such as Galvanising, Zincalume®, Brass, copper and Bronze.
- Horizontal walkways.
- Do not clean or treat the RTV silicone with materials, cleaning agents or solvents that may affect or discolour the silicone, particularly during curing.
- This silicone is not paintable. If there is a requirement to paint the sealant, our recommendation is to use our Bostik ZBond® Paintable silicone sealant or Bostik Gap Filler acrylic sealant products. Follow both the sealant and paint manufacturers painting instructions carefully, when painting sealants.

HEALTH AND SAFETY

Bostik RTV 922 is not classified as Dangerous Goods or a Hazardous Substance according to Worksafe Australia respectively. The product however, should be used in accordance with good occupational, health and safety practices. May cause irritation if swallowed, moderately irritating to eyes, vapour may cause irritation during the cure stage (if vapour in high concentrations). It releases acetic acid until fully cured.

Do not swallow and avoid prolonged or repeated contact with the skin. If contact with the eyes occurs, wash eyes with copious quantities of water and consult a doctor if irritation persists.

Always read Material safety data sheet and Bostik RTV 922 product data sheet before using. The Material Safety Data Sheet defining the known hazards and describing the appropriate safety precautions with respect to the product are available through Bostik Australia Pty. Ltd.



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Important Notice for Users

Bostik's sole warranty is that its products will meet Bostik's then current sales specifications, which are available through its commercial agency

We based the Information and data contained in this publication on our current knowledge of the product. The properties of individual batches of sealant may vary from the results published as mean results achieved, however our Quality Control

System will ensure they are always within an acceptable tolerance of the published figures.

As the application, use and processing of the product are beyond our control Bostik disclaims any warranty for fitness for use or for a particular purpose.

Bostik Australia Pty. Ltd. provides a comprehensive testing service, in our Quality Control Laboratory. Where particular performance criteria are required we strongly recommend that a testing program be carried out, prior to the commencement of the project.

Suggestions for use should not be taken as an inducement to infringe any particular patent.

The representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes.

* Z Bond is a registered trademark of Bostik Australia Pty Ltd



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