

Intek Adhesives Ltd

RTV Silicones to Bond, Seal, Insulate & Weatherproof



RTV2 FC Fast Curing Silicone Sealant

RTV 2 FC fast curing sealant is a twin pack cartridge, or bulk system, which consists of an acetoxyl 1-Part RTV Silicone Sealant and an accelerator in a 10 : 1 ratio. By extruding the system through a static mixer nozzle, the intimately mixed system behaves like a conventional silicone sealant, but has the advantage of very fast cure - less than 3 hours to almost full cure.

Key Features

- fast curing for rapid assembly
- good adhesion
- low odour - considerable reduction in acetic acid evolution
- will cure without air or moisture in 2 hours (not possible with conventional 1-Part RTV sealants)
- similar properties to the conventional RTV sealant

Use and Cure Information

How to Use

RTV2 FC is supplied in a high quality twin cartridge system, the principle component in a 240 ml cartridge and the accelerator in a 24 ml integral cartridge.

To facilitate removal of the nose plug a metal removable disc is located above the locking nut. The simple act of unscrewing the locking nut removes the nose plug. A static mixer nozzle is placed on the outlet and locked into place with the locking nut. (13mm).

The stepped outlet of the static mixer nozzle is normally cut back 2 or 3 steps before fitting the cartridge into the gun dispenser.*

The cartridge is located in the gun and pressed to click into place.

Application and Cure

The sealant system is extruded by applying a steady pressure to the trigger. In the case of the manually operated dispenser, full depression of the trigger should be maintained as long as possible before release and reapplying trigger pressure.

Complete mixing of each component is achieved within the first 50-60% of the nozzle. The extruded sealant should be applied to the job in hand immediately and tooled within 1 minute of application.

The sealant will be tack-free within 10 minutes and almost fully cured within 1 hour, depending on the joint dimensions.

Whilst all reasonable care is taken in compiling technical data on the company's products, all recommendations or suggestions regarding the use of such products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, and that the actual conditions of use are suitable

Property

Uncured Product

Colour:

Appearance:

Tack Free Time:

3mm Cure Through:

Extrusion Rate:

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

Cured Elastomer

(after 7 days cure at 23+/-2°C and 65% relative humidity)

Tensile Strength: BS903 Part A2 2.32 MPa

Elongation at Break: BS903 Part A2 280 %

Youngs Modulus: 0.65 MPa

Modulus at 100% Strain: BS903 Part A2 0.91 MPa

Tear Strength: BS903 Part A3 5.50k N/m

Hardness: ASTM D 2240-95 39° Shore A

Specific Gravity: BS 903 Part A1 1.05

Linear Shrinkage: <1.0%

Thermal Conductivity: 0.20 W/mK

Coefficient of Thermal

Expansion:

Volumetric 876 ppm / °C

Linear 292 ppm / °C

Min. Service Temperature: -50 °C

Max. Service Temperature: AFS 1540B 250 °C

Electrical Properties

Volume Resistivity: ASTM D-257 4.70x10¹⁴ Ω.cm

Surface Resistivity: ASTM D-257 7.77x10¹⁵ Ω

Dielectric Strength: ASTM D-149 18 kV/mm

Dielectric Constant at 1MHz: ASTM D-150 3.0

Dissipation Factor at 1MHz: ASTM D-150 2.5x10⁻³

Adhesion Testing

Good unprimed adhesion to many substrates including glass stainless steel, aluminium and most plastics.

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

Health and Safety -Material Safety Data Sheets available on request.

Packages -265ml cartridges.

Storage and Shelf Life - Expected to be 12 months in original, unopened containers below 40°C.

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TECHNICAL DATA