

Technical Data Sheet

KS915

Rapid Cure High Temperature RTV Silicone

Description

KS915 is a high strength, high temperature silicone RTV engineered for applications requiring fast development of physical properties and excellent adhesion.

KS915 offers the highest temperature resistance of any acetoxycure silicone currently available. When cured, the elastomer is resistant to weathering, ozone, moisture, UV and high working temperatures.

KS915 works well in manual and automatic dispensing equipment.

Technical Features

Appearance:	Red / Orange
Viscosity:	500,000 cPs
State:	Thixotropic Paste
Specific Gravity:	1.14
Solids Content:	98%
Working Time ¹ :	4 minutes
Tack Free Time ¹ :	12 minutes
Cure Time ¹ :	72 hours
Application Rate:	175g/min @ 6 Bar
Durometer:	38 Shore A
Tensile Strength:	5 - 6 N/mm ²
Lap Shear Strength:	2 - 2.5 N/mm ²
Peel Strength:	8 - 9 kN/m
Tear Strength:	17 - 18 kN/m
Elongation to break:	850%
Dielectric Strength:	500 V/mil
Dielectric Constant @ 100Hz:	2.8
Volume Resistivity:	2.0 x 10 ¹⁴ Ω cm
Thermal Conductivity:	0.005 W/m.K
Dissipation Factor:	0.001
Coefficient of Thermal Expansion:	20 x 10 ⁻⁵ K ⁻¹
Service Temperature:	-45 to +300°C
Shelf Life ² :	12 months

¹ At room temperature 21°C

² Stored in original unopened containers @ 20°C

Product Features

- Fast, room temperature cure
- Thixotropic paste
- Chemical cure system is Acetoxycure

Typical Applications

- 'Form in place' gaskets
- Assembly line adhesive
- Adhesive sealant

Adhesion

KS915 has excellent unprimed adhesion to plastic, metal and glass substrates

Cure Speed Influence

Cure speed can be accelerated with increased humidity and heat to very rapid cure times.

Typical utilization involves dispensing in open air and after exposure to ambient humidity, a room temperature cured rubber is formed

Limitations

Do not use product on head gaskets, fuel or solvent immersion applications.

Allow to fully cure before putting assembly into service.

Ensure enough product remains between flanges to be effective in an assembly.

Handling Precautions

Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to the SDS for more information.



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Storage

Store in a cool area out of direct sunlight below 20°C. Storage at higher temperatures may affect product performance and shelf life.

For maximum shelf life, keep containers sealed when not in use.

Instructions for Use

Ensure parts are clean, dry and free from oil and grease.

Apply adhesive to one substrate.

Assemble parts and allow to cure.

Wipe excess adhesive from outside of joint whilst adhesive is still wet.

Notes

The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.

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