

Technical Data Sheet

KS715

Rapid Cure RTV Silicone

Description

KS715 is a fast curing, high strength, silicone RTV adhesive rubber product engineered for applications requiring fast development of physical properties and excellent adhesion.

When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

KS715 works well in manual and automatic dispensing equipment.

Technical Features

| | |
|-----------------------------------|---------------------------------------|
| Appearance: | Grey |
| Viscosity: | 500,000 cPs |
| State: | Thixotropic Paste |
| Specific Gravity: | 1.12 |
| Solids Content: | 98% |
| Working Time ¹ : | 4 minutes |
| Tack Free Time ¹ : | 12 minutes |
| Cure Time ¹ : | 72 hours |
| Application Rate ¹ | 175g/min @ 6 Bar |
| Durometer: | 38 Shore A |
| Tensile Strength: | 5 N/mm ² |
| Lap Shear Strength: | 2 - 2.5 N/mm ² |
| Tear Strength: | 17 - 18 kN/m |
| Peel Strength: | 8 - 9 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 +260°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 Acetoxy

Typical Applications

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

Adhesion

KS715 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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