

Technical Data Sheet

KSC12028

Repenetrable 2 Part RTV Silicone Gel

Description

KSC12028 is a silicone RTV gel developed for electronic applications requiring a repenetrable self-sealing, silicone gel product.

KSC12028 is a two part, solvent free, 1:1 mix ratio silicone that when mixed cures in 12 hours at room temperature. Alternatively, KSC12028 can be cured in approximately 15 minutes by heating to 150 °C.

KSC12028 provides protection from vibration and thermal or mechanical shock. KSC12028 also provides excellent moisture protection.

Technical Features

Appearance:	Transparent Blue
Viscosity:	1,000 cPs
State:	Liquid
Specific Gravity:	0.98
Solid Content:	98%
Pot-life ¹ :	120 minutes
Cure Time ¹ :	12 hours
Accelerated Cure Time ² :	15 minutes
Dielectric Strength:	>10 KV/mm
Dielectric Constant @ 100Hz:	2.8
Volume Resistivity:	1.0 x 10 ¹⁵ Ω cm
Dissipation Factor:	0.001
Coefficient of Thermal Expansion:	1 x 10 ⁻³ K ⁻¹
Service Temperature:	-45 to +250°C
Shelf Life ³ :	12 months

¹ At room temperature 21°C

² Heated to 150°C

³ Stored in un-opened original containers @ 20°C

Product Features

- Convenient 1:1 mix ratio
- Excellent repenetrability and conformation to plastic, metal and glass
- Excellent self-healing / self-sealing properties
- Chemical cure system is Platinum catalyzed, addition cure

Typical Applications

- Assemblies requiring inspection with probes
- Electronic component vibration, shock and thermal insulation
- Dust and moisture protection
- Potting and encapsulation
- Transparent dielectric insulation

Adhesion

KSC12028 offers minimal primerless adhesion to plastics, metals and typical substrates

Cure System

Platinum catalyzed, addition cure.

Limitations

Do not use KSC12028 on head gaskets, fuel or solvent immersion applications.

Allow to fully cure before putting assembly into service.



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Handling Precautions

Keep out of the reach of children.

Uncured sealant irritates eyes and skin.

KSC12028 is a Platinum cure system product. The catalyst can be deactivated by exposure to sulphur containing compounds like thiols, sulphides, sulphates, organic rubber containing sulphur, nitrogen containing compounds like amines, amides, imides, azides, tin metals or compounds, or tin cured RTV's.

Refer to the SDS for more information.

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.

Dispense product to ensure both sides are flowing freely.

Add mix nozzle to cartridge and purge one nozzle length worth of product to ensure fully mixed product.

Dispense product into cavity until fully encapsulated.

The liquid consistency of KSC12028 flows around components, minimising the formation of voids. Also the extended pot life allows trapped air bubbles to float to the fluid surface and escape, so vacuum degassing is not required.

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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