

Technical Data Sheet

**Silicone
RTV-2**

SL3000



ADVANTAGES

- Low viscosity
- Excellent weatherability, thermal stability
- Good flowability

Certifications

- SL3000AB-Black:
UL94 V-0
- SL3000AB-Black(D):
UL94 V-2

Product Description

SL3000 is two-part addition cure type RTV-2 which has good flow ability. After mixing Part A(SL3000A) and Part B(SL3000B) by the weight ratio 1:1, it cures to flexible elastomer within 24 hours.

Applications

- Potting material to protect and seal electric parts or lids
(Power Supplies, Connector, Sensor, Relay, High Voltage Resistor Pack..).

Key Performance Properties

- Non-corrosive, Good flowability, room temperature cure
Excellent electrical properties and thermal stability
- High stability and flexibility at low temperature after cured.
(-40 °C ~ 150 °C)

Typical Product Data

Property	Unit	SL3000AB-Black	SL3000AB-Black(D)	SL3000AB-White
		Result		
Uncured Property				
Appearance	-	PTA: Black PTB: White	PTA: Black PTB: White	PTA: White PTB: White
Specific Gravity	-	1.20	1.09	1.12
Viscosity	cP	2,400	1,200	1,300
Cured Property				
Mixing ratio	Weight	1:1		
Hardness	Shore A	45	27	27
Pot life	min	45	30	35
Volume Resistivity	Ωcm	3.0 x 10 ¹³	3.0 x 10 ¹³	3.0 x 10 ¹³
Thermal conductivity	W/mK	0.24	0.24	0.24
Dielectric Strength	kV/mm	18	18	18

(Cure condition: 80 °C, 20min)

Typical property data values should not be used as specifications.

Handling Condition and Precautions

- 1) During or after mixing two parts, the air entrapment should be removed under vacuum .
- 2) Cure reaction begins with mixing and working time is 25~45min through the complete cure time is 24hours(25 °C).
- 3) Curing time can be different from temperature ranges.
- 4) DO NOT USE - If this product contacts or contains with materials below:
 - ① Organotin and other organometallic compounds
 - ② Silicone rubber containing organotin catalyst
 - ③ Sulfur, polysulfides, polysulfones or other sulfurcontaining materials
 - ④ Amines, urethanes or amine-containing materials
 - ⑤ Phosphorous or phosphorous-containing materials
 - ⑥ Unsaturated hydrocarbon plasticizers
 - ⑦ Acidic materials (usually organic acids)
 - ⑧ Some solder flux residues
- 5) Use of these products must be based on the results of your product testing, manufacturing processes and end applications.
- 6) Full environmental exposure testing is recommended for all applications.
- 7) No adhesion.
- 8) All parts should be as clean and dry as possible prior to applications.
- 9) Use product after completely cured.
- 10) Keep away from ultraviolet light.
- 11) Do not mix product and any solvent or dilute together.
- 12) Wear eye protection and protective glove when handling product.
- 13) Maintain adequate ventilation in the work place at all times.
- 14) Wash thoroughly affected skin areas with mild soap and plenty of water.
- 15) Do not dispose of the emptied container unless the contents have been completely removed and the container has been flushed with a clean neutral solvent and then dried up.
- 16) Use product within shelf life.
- 17) Pre-test is recommended to confirm adequate cure for each application.

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- 18) Do not swallow.
- 19) Do not use heat, open flame, sparks or other sources of ignition.
- 20) For industrial use only
- 21) No shock and vibration.
- 22) These products are neither tested nor represented as suitable for medical or pharmaceutical uses.

Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets.

They are available on request from KCC subsidiaries or may be printed via KCC web site

<http://www.kccworld.co.kr/silicone>

※ Inquire other questions to customer service.

Safety and Storage

When stored at or below 30℃ in the original unopened containers, product have a useable life of 12 months from the date of production.

Store in a cool place(10 ~ 30℃) out of direct sunlight.

Keep out of the reach of the children.

Packaging

18Kg Tin Can

20Kg Tin Can

The date of issue

The first of issue : 2006.07.27

The revised of issue : 2015.12.21

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Warranty Information – *Please read carefully*

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that KCC's products are safe, effective, and fully satisfactory for the intended end use.

KCC's sole warranty is that the product will meet the KCC sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to replacement of any product shown to be other than as warranted.

KCC specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless KCC provides you with a specific, duly signed endorsement of fitness for use, KCC disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE SHOULD BE REFERRED TO MATERIAL SAFETY DATA SHEET (MSDS). READ MSDS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE KCC WEBSITE AT KCCWORLD.CO.KR, OR FROM YOUR KCC REPRESENTATIVE, OR DISTRIBUTOR.