



Technical Data Sheet _ Non-staining sealant

SL999

Feature

- 1-Component
- Excellent gunability
- Neutral cure

Benefit

- Non-staining
- Excellent weatherability
- Excellent workability

Main Ingredients

- Silicone Polymer

1. Introduction

SL999 is a one-component silicone sealant designed for sealing specifically where non-staining performances are required and weatherproofing performances.

SL999 is neutral curing (oxime) silicone rubber based sealant with outstanding adhesion.

2. Application

- Sealing of aluminum curtain wall joint. (fluoropolymer coated, anodized)
- Joint of porous stone and aluminum complex panel.
- Sealing in constructions work such as windows and doors.

3. Main Properties

* 1-COMPONENT & NON-SLUMP

* Good Adhesion to most substrates

* Good weatherability and gun workability regardless of seasons

4. Properties

(Tested at 23 °C, 50 % relative humidity)

Property	Unit	Result
Binder	-	Silicone Polymer
Curing System	-	Neutral curing (Oxime)
Color	-	White, Gray, Brown, Black
Consistency	-	Soft paste
Solvent	-	NONE
Tack free time	min	Max. 30
Specific Gravity	-	1.28 ± 0.1
Tensile Strength (ASTM D412)	N/mm ²	1.3 ± 0.2
Elongation (ASTM D 412)	%	450
Packaging	-	300 ml Plastic cartridge 500 ml AI Sausage package
Shelf Life	Month	12
Recovery	%	96
Weathering resistance	-	Excellent

* ASTM: American Society for Testing and Materials

Notice 1) These property values are tested in a lab condition. They might be changed by testing and storage conditions.

2) Please contact to KCC sales office before writing specifications on this product.



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5. How to use

1) CLEAN ALL JOINT SURFACE

Clean all substrate surface and regarding dust oil, frost and any contaminants
Wipe polluted parts using solvent and a piece of cloth. Do not use detergent, soap and water.

2) INSTALL BACK-UP MATERIALS

Backer rod materials such as closed cell polyethylene type can be used as the base of the joint to control sealant depth.

3) MASK ADJACENT SURFACE WITH MASKING TAPE

Masking tape will ensure a clean, neat appearance and reduce clean up by protecting surrounding areas from excess sealant.

4) PRIMING

Primer may be needed for optimum adhesion to some substrate surface based on adhesive testing service.

5) APPLYING SEALANT

Applying sealant deeply into joint. Sealant must be filled into the joint cavity perfectly.

6) TOOL SEALANT

Tool sealant immediately after sealant application. It helps to provide smooth and flat finish and to ensure that the sealant wets the sides of the joint without any voids.

7) REMOVE MASKING TAPE

Remove masking tape prior to forming sealant surface skins.

8) CLEANING

Clean all stuffs around sealant cure area and do not touch when sealant is curing.



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6. Limitation

SL999 should not be applied :

- 1) To building materials of adhesive hindrance or discoloration that bleed oil, plasticizer or solvent and so on.
- 2) In totally confined spaces.
- 3) When substrate surface temperatures exceed 50 °C and under 5 °C.
- 4) To wet surface (on frost-laden or damp surfaces).
- 5) Humid day(over 85% relative humidity day).
- 6) For continuous immersion in water or in below-grade applications.
- 7) Surface in direct contact with food.
- 8) For continuous high pressure and high temperature.
- 9) Interior fire prevention section.
- 10) Joint region that wear is expected by physical friction.
- 11) Region that paint is required to sealant.
- 12) Not recommended for use on polycarbonate plastic sheeting, self-cleaning glass, non-staining fluorine coating suitability for use on other type of plastic should be tested prior to application.
- 13) Structural glazing



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7. Handling Precautions

- * Use at room temperature in the range of 30 to 80 % relative humidity.
- * Time for complete cure is depend on the thickness of sealant applied.
- * Adhesion may decline in case of the substrate contaminated.
For the best adhesion, clean surfaces thoroughly with solvent before applying the product.
- * Wear eye protection and protective gloves when handling this product.
- * Maintain adequate ventilation in the work place at all times.
- * Keep in place that child's hand does not touch and never ingest or do not touch in skin
- * Keep or do work at neighborhood of heat or fire.
- * Do not use besides service.
- * Do not inflict shock in receptacle.
- * Avoid direct ray of light and keep in state that is tightly shut in place that moisture is less.
- * Do not mixing with other products.
- * Wash your skins cleanly after work.
- * Abolish through waste processing company.
- * As change in quality can be at long term storage, use in validity.
- * Do not use defected back-up materials. It might induce air bubble.

Confirmation is necessary in regard of sealant before use.

- Apply after adhesion and compatibility test although adhesion of sealant is excellent to most of building materials.
- Sufficient tests are needed for purposed applications. The applicability of sealant is depend on the decision of customer.

- ※ Inquire other questions to customer service.
- ※ When there is something wrong to product, it can be compensated by compensation regulation.



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8. Safety and Storage

- Use it within 12 months from the day of manufacture. As change in quality can be possible at long term storage use in validity.
- Store in a cool dry place out of direct sunlight.
- Keep in place that child's hand does not touch and never ingest or do not touch in skin.
- Don't work at neighborhood of heat or fire.
- Store in original unopened containers in a dry place. Temperature should not exceed 25 °C for prolonged periods. (Recommended at 5 ~ 25 °C)
- Please, refer product MSDS for more details regarding safety information.

9. Packaging

- 300 ml Plastic Cartridge, 25pcs/Box
- 500 ml Al Sausage package, 20pcs/Box

10. 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.



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11. Issued date

- The date of first issue : 2014.12.23
- Revision date of issue : 2015.03.31

※ Please, refer product MSDS for more details regarding safety information.