**Technical Data Sheet**

**KORESEAL Silicone Sealant**

# KCC SILICONE

# Technical Manual for Runway sealing sealant

***Silicone Sealant for Sealing of Connecting and Expansion Joint in the Runway***

# [SL850]

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# Technical Data Sheet

**KORESEAL**
**Silicone**
**Sealant**

# SL850

## Introduction

SL850 is an one component, neutral curing silicone rubber based sealant with outstanding adhesion to general construction materials (excellent mechanical and adhesive property)

## Product Description

### Feature

- Excellent durability and weather resistance
- Can be applied without pre-heating (temp. as low as 5 ℃/41 F)
- Excellent adhesion to most material with suitable primer
- Excellent resistance to solvent, dilute acid, vegetable oil

### Benefit

- Excellent durability and weather resistance
- Excellent adhesion to most material with suitable primer

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# SL850

## Key performance property

### Typical Property Data

(Tested at 23 ℃, 50 % relative humidity)

| Property | Unit | Result |
|---|---|---|
| Binder | - | Silicone Polymer |
| Curing System | - | Neutral curing (Oxime) |
| Consistency | - | Semi Flowage |
| Tack free time | min | 30 ~ 60 |
| Specific Gravity | - | 1.23 ± 0.1 |
| Hardness | Shore A | App. 5 |
| Tensile Strength (H-Shape) | N/㎟ | 0.8 ~ 1.2 |
| Elongation (H-Shape) | % | 800 ~ 1,000 |
| Packaging | - | Pail(22.1 kg), Drum(221 kg) |
| Shelf Life | Month | 12 |
| Accelerated Weathering Test (Xenon) | hour | 5,000 |

**Notice**) Typical property data values should not be used as specifications.

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# SL850

## Application

- Sealing of joint on building materials such as concrete, brick, steel, stone, etc.
- Joints on subway construction and factories

# How to use

1) CLEAN ALL JOINT SURFACE

Clean all substrate surface removing contaminants
(eg. dust, oil, loose debris and so on).
Solvent wipe polluted parts using a piece of cloth. Do not use detergent or soap and water.

2) INSTALL BACK-UP MATERIALS

Backer rod materials such as closed cell polyethylene type can be used in 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. Information on KCC primer is available on request from KCC.

5) APPLYING SEALANT

Applying sealant into the base of the joint so that it completely fill the joint, wetting both sides.

6) TOOL JOINT

Tool the surface of the joint immediately after sealant application to provide a smooth even finish and to ensure the sealant wets the sides of the joint.

7) REMOVE MASKING TAPE

Remove masking tape immediately after tooling and before the sealant skins.

8) CLEANING

Be careful so that is not effect to substrates and sealant when clean surrounding region after work.

# Limitation

SL850 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 40 ℃.
4) To wet surface.
5) For continuous immersion in water or in below-grade applications.
6) Surface in direct contact with food.
7) For continuous high pressure and high temperature.
8) Interior fire prevention section.
9) Joint region that wear is expected by physical friction.
10) Region that paint is required to sealant.
11) Not recommended for use on polycarbonate plastic sheeting, suitability for use on other type of plastic should be tested prior to application.

## Handling Precautions

* Use at room temperature in the range of 30 to 80 % relative humidity.
* Use at temperature over 40 ℃ is not recommended.
* Time for complete curing is dependent on the thickness of sealant applied.
* Adhesiveness 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 cleanly after work.
* Abolish through waste processing company.
* As change in quality can be at long term storage, use in validity.

Confirmation is necessary in regard of SL850 before use.

- Apply after adhesive test although most building materials and coherence are excellent.
  (Structural applications require prior testing please contact to KCC before applying)
- For sufficient test for the purposed usage of the sealant by the end user is needed
  The application of products suitability for purposes of the final decision will depend on consumers

※ Inquire other questions to customer service.

※ When there is something wrong to product, it compensated by compensation regulation.

## 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 30 ℃ for prolonged periods.

## Packaging

Pail(22.1 kg)

Drum(221 kg)

## 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.