

TECHNICAL DATA SHEET

SabreSeal™ FL



SabreSeal FL is a professional grade one-component, moisture-curing, low modulus 100% silicone sealant with excellent adhesion, superior flexibility, and very good processing properties for construction and industrial applications. SabreSeal FL has been developed specifically for application in sealing concrete and steel joints in flooring applications. It exhibits superior adhesion performance, excellent movement capability (+100% / -50%), and non-sag properties, making it well suited for applications requiring a high level of durability.

Advantages

- 100% neutral silicone
- Solvent-free
- Large joint movement accommodation
- Superior primerless adhesion
- Excellent gunability in a wide range of temperature conditions
- Excellent UV stability
- Tack-free and highly elastic after curing
- Non-corrosive
- Low modulus

Designed for:

- Sealing joints between a wide variety of materials, such as concrete, wood, metal or mineral based substrates
- Sealing construction floor joints, steel armour joints, connection joints and upstands in new construction, repair or remedial applications
- Perimeter sealing

Technical Data

Typical Properties	Value	ASTM D5893 Requirement
Density (DIN EN ISO 1183-1 A)	1.34-1.38g/cm ³	n/a
Hardness (ISO 868)	25 Shore A	25 maximum
Skin Formation Time (internal method)	15 mins	n/a
Tack Free Time (ASTM C679)	TBC	5 hours max
Cure Rate	3mm in 24hr, then 1mm/day after	n/a
Extension Movement Capability (ISO 8339)	+100%	n/a
Compression Movement Capability	-50%	n/a
Ultimate Elongation (ASTM D412)	700-800%	>600%
Accelerated Weathering (ASTM C793)	>6000 hours	5000 hours
Tensile Strength (ISO37-S2)	1.0-1.5N/mm	n/a
Service Temperature Range	-50°C to +150°C	n/a

These values may vary depending on environmental factors, such as temperature, moisture and type of substrates.

Application Direction

Surface Preparation:

Recommended application temperature is +5°C to +40°C. Thoroughly clean and dry all surfaces by removing foreign matter and contaminants such as laitance, oils, dust, grease, water, curing agents, and coatings.

When resealing joints that have been previously sealed, the sealant must be mechanically removed. The joint is then saw-cut to produce a new surface for sealing.

Priming:

SabreSeal FL will typically develop adhesion without the need of a primer to most common porous and non-porous construction materials. Priming is determined to be necessary, or not, by conclusions derived from the results of testing with project-specific materials, if necessary to achieve optimum adhesion and cyclic movement capability.

Porous substrates: If/when priming is deemed necessary, Sabre Primer PX is recommended for use.

Non-porous substrates: If/when priming is deemed necessary, Sabre Surface Activator is recommended for use.

For application in steel armour joint systems, contact Sabre technical department for assistance regarding surface preparation recommendations.

In applications where the sealant could be exposed to fuel or chemical spillage, a primer must be used.

Application:

Masking: To avoid contamination and damage, attached a masking tape on the sides of the joint to be sealed.

Backing Material: A backer rod or bond breaker tape is required to be installed into the joint prior to sealant application, to prevent three-sided adhesion, control sealant depth, and ensure full contact of the sealant with the joint walls when tooled.

Sealing & Tooling: Fully fill the joint, using enough pressure so that there is no empty space or bubbles, ensuring the surfaces are fully 'wetted' with the sealant. Tool the sealant within the specified skin time.

Curing: Protect the sealed joint from dust, pollutants, or traffic, to avoid damage or deformation whilst curing.

Certification

- SabreSeal FL is classified KS F 4910 F-25LM / Eco-Label certificate.

Limitations

Not recommended for following applications:

- Bituminous and asphalt materials
- Sealing aquariums or long term use under water
- Natural stone, such as marble, granite, quartzite, as it can cause staining
- Food grade applications where the joints are likely to come in contact with food
- Avoid contact with metals such as lead, copper, brass or zinc due to corrosion
- Avoid application to wet or damp asphalt or concrete surfaces.

Packaging

- **Available colours:** Grey
- **Sausage:** 600ml • 12/carton

Storage & Shelf Life

Store in a dry and cool place with temperature below 30 °C. (Do not store below 5 °C).

Shelf life is 18 months from production date.

Safety notes

During vulcanization methylethylketoxime is released. These vapors should not be inhaled for long periods or in high concentration. Hence, good ventilation of the work place is necessary. Should uncured silicone rubber come into contact with eyes or mucous membranes, the affected area must be rinsed thoroughly with water as irritation will otherwise be caused. Cured silicone rubber, however, can be handled without any risk to health.

Keep away from children.

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

They are available on request from Sabre or via <http://www.sabreadhesives.com>

SabreSeal_FL_TDS_2502

IMPORTANT NOTICE

Sabre Adhesives Limited makes no warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of application. Due to the fact that specific substrates, such as: plastics, polycarbonates, etc, may differ from manufacturer to manufacturer we recommend preliminary compatibility tests. Please remember that many factors can affect the use and performance in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a product. Given the variety of factors that can affect the use of our products some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

LIMITATION OF REMEDIES AND LIABILITY

If the product is proved to be defective, the sole remedy shall be to refund the purchase price or to repair or replace the defective product. Sabre shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

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