

LC 810

Silicone Sealants

WACKER® LC 810 is a one-part, neutral silicone sealant with outstanding adhesion to most building substrates. Also, LC 810 is a non-stain (non-bleeding) silicone exclusively for exteriors. LC810 has excellent elasticity, excellent weatherproof, which can accept $\pm 25\%$ of movements and construction/expansion.



Properties

- Excellent weather resistance
- Excellent durability
- Good elasticity
- Good adhesion

Technical data

Properties Uncured

Property	Condition	Value	Method
Consistency	-	non-sag	ISO 7390
Density	23 °C	1.35 - 1.39 g/cm ³	DIN EN ISO 1183-1 A
Skin formation time	-	max. 15 min	internal method

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Cured

Cure conditions: 190°C 10min

Property	Condition	Value	Method
Elongation at break	-	300 - 500 %	ISO 37 - S2 (2 mm film)
Hardness Shore A	-	25 - 35	ISO 868
Modulus at 100 % elongation	-	0.4 N/mm ²	ISO 8339-A
Movement capability	-	25 %	ISO 11600
Tensile strength	-	1.0 - 1.5 N/mm ²	ISO 37 - S2 (2 mm film)

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Silicone Sealants

Application details

Application Fields

- Exterior & interior joint for non stain
- Al frame curtain wall & complex panel joint
- Stone & ceramic joint

Processing

- Preparation - The substrate areas that will be in contact with the sealant must be clean. For application
- Masking - To avoid contamination and damage attach a masking tape on the side of work area.
- Primer - Non-pored substance needs primer treatment at first.
- Sealing & Tooling - Fully fill in cross point or side edge point of the joint without empty space without bubbles.
- Removing masking tape - Get rid of masking tape and clean up remained sealant
- Curing - Protect from dust and pollutant to have qualified surface and avoid being damaged on the surface of sealant while curing

Certification

- WACKER® LC 810 is certified and classified KS F 4910 F-25HM / HB(TVOC) certificate / ASTM C 1248

Adhesion

- WACKER® LC 810 exhibits excellent primeless adhesion to most non-porous siliceous material, e.g., glass, tiles, ceramics, concrete, enamel, glazed tiles, and clinker. Users must carry out their own tests due to the great variety of substances. The adhesion can be improved in many cases by pretreatment of the substrates with a primer. If adhesion difficulties arise please contact our technical service.

Restrictions on use

- It is the user's responsibility to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating materials (paints, varnishes, and glazes) or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials. Wacker cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests.
- WACKER® LC 810 must not be used for insulating glass applications.
- WACKER® LC 810 should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.
- WACKER® LC 810 may be discolored in contact with some WACKER® LC 810 e.g. EPDM, APTK and neoprene.
- WACKER® LC 810 should not be used for sealing of aquaria.
- WACKER® LC 810 is not recommended for sealing of aquaria or for longer-term use under water.
- WACKER® LC 810 is not suitable for food grade applications where the joints are likely to come in contact with food.
- WACKER® LC 810 is not suitable for use as a mirror adhesive.
- The time until complete curing may be extended at lower temperature, lower humidity, increasing film thickness or by low volume of air exchange.

The use of tooling agents should be avoided if possible. Otherwise, water or a diluted solution of a little neutral soap or alcohol in water should be sparingly applied.

Packaging and storage

Packaging

- Sausage: 500ml(20ea/1box), Shelf life is 18 months from production date.

Storage

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

- Should use before the expire day.
- Avoid sun light, dry and cool at 5~30°C is recommended.

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 Sheets. They are available on request from WACKER subsidiaries or may be printed via Wacker web site <http://www.wacker.com>.

QR Code LC 810



For technical, quality or product safety questions, please contact:

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