

LUCKY-SILICONE LC 179

WACKER Brand

WACKER® LC 179 is a one-part, neutral silicone sealant that has excellent heat-resistance, water-proof, and dust-proof effects and excellent sealing effect from long-term contraction and expansion, requiring heat-resistant properties such as boilers and heaters.

WACKER® LC 179 cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.



Properties

- Non-sag
- Excellent weather resistance
- Excellent durability
- Good elasticity
- Good adhesion
- Non-corrosive to metals
- Suitable for alkaline substrates such as concrete, mortar, fibrous cement

Specific features

- adheres to most substrates without primer
- Excellent adhesion to glass, vitrified surfaces, ceramic tiles, many plastics and most paints
- Good adhesion to metals, glass and ceramics
- Oxime-cure
- Suitable for alkaline substrates such as concrete, mortar, fibrous cement

Technical data

Properties Uncured

Property	Condition	Value	Method
Density	-	0.99 - 1.03 g/cm ³	DIN EN ISO 1183-1 A
Consistency	-	non-sag	ISO 7390
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

Property	Condition	Value	Method
Elongation at break	-	300 - 500 %	ISO 37 - S2 (2 mm film)
Hardness Shore A	-	15 - 25	ISO 868
Tensile strength	-	0.8 - 1.2 N/mm ²	ISO 37 - S2 (2 mm film)

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

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

- Sealants
- Silicone Sealants WACKER Brand
- Specific Application

Application details

Application Fields

- Boilers and heaters 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

Adhesion

- WACKER® LC 179 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 179 must not be used for insulating glass applications.
- WACKER® LC 179 should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.
- WACKER® LC 179 may be discolored in contact with some WACKER® LC 179 e.g. EPDM, APTK and neoprene.
- WACKER® LC 179 should not be used for sealing of aquaria.
- WACKER® LC 179 is not recommended for use on natural stone, such as marble, granite, quartzite, as it can cause staining.
- WACKER® LC 179 should not be used in contact with metals such as lead, copper, brass, or zinc due to corrosion.
- WACKER® LC 179 is not recommended for sealing of aquaria or for longer-term use under water.
- WACKER® LC 179 is not suitable for food grade applications where the joints are likely to come in contact with food.
- WACKER® LC 179 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

- Cartridge:300ml(25ea/1box), Shelf life is 12 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 LUCKY-SILICONE LC 179



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.