

ELASTOSIL® 6100



Finished Sealants

ELASTOSIL® 6100 is a one-component, acid-curing, silicone sealant for general purpose sealing in do-it-yourself applications especially for sanitary areas.

ELASTOSIL® 6100 cures at room temperature in the presence of atmospheric moisture to give a permanently flexible silicone rubber.

Properties

- suitable for use in sanitary areas
- non-sag
- readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- rapid crosslinking: quickly becomes tack-free and crack resistant
- flexible at low (- 40 °C) and high temperatures (+ 100 °C) following cure
- adheres excellently to glass, vitrified surfaces, ceramic tiles and most coatings

Specific features

- Acetoxy-cure
- Suitable for use in sanitary areas

Technical data

Properties Uncured

Property	Condition	Value	Method
Skin forming time	23 °C 50 % r.h	25 min	-
Density	23 °C	0.98 g/cm ³	ISO 1183-1 A
Consistency ⁽¹⁾	-	non-sag	ISO 7390, profile U 20
Extrusion rate - mass flow	6 bar 23 °C	800 g/min	-

¹23°C

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

Properties Cured

Cure conditions: 5 min / 165 °C in press

Property	Condition	Value	Method
Movement capability	-	12.5 %	ISO 11600
Modulus at 100 % elongation	-	0.36 N/mm ²	ISO 8339-A
Elongation at break	-	150 %	ISO 8339
Hardness Shore A	-	18	ISO 868
Tear strength	-	4.0 N/mm	ISO 34, method C
Tensile strength ⁽¹⁾	-	0.60 N/mm ²	ISO 8339

¹(joint)

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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

- Ready-to-Use Silicone Sealants - General Applications
- Sealants
- Silicone Sealants

Application details

Application fields

- DIY applications (car, boat, caravan, house)
- Sealing in sanitary areas

Processing

The substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material such as dust, dirt, rust, oil and other contaminants. Non-porous substrates should be cleaned with a solvent and clean, lint-free, cotton cloth. Remove residual solvent before it evaporates with a fresh clean, dry cloth.

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.

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.

Certification

ELASTOSIL® 6100 is certified and classified according to

- EN 15651-1 - F-EXT-INT-CC Class 12,5 E
- EN 15651-3 - Class XS1
- EMICODE EC-1

Adhesion

ELASTOSIL® 6100 exhibits excellent primerless adhesion to most non-porous siliceous materials (e.g. glass, tiles, ceramics, enamel, glazed tiles) as well as painted, laminated and coated wood.

Users must carry out own tests due to the great variety of substrates. The adhesion can be improved in many cases by pretreatment of the substrate with a primer.

The work should only be carried out with sufficient fresh air supply. Wear appropriate protective clothing when processing.

Restrictions on use

ELASTOSIL® 6100 is not compatible with carbonate containing stone e.g. marble and limestone, as the product releases acetic acid during vulcanization.

ELASTOSIL® 6100 should not be used on substrates such as concrete, fibrous cement and mortar, as the product releases acetic acid during curing.

ELASTOSIL® 6100 should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.

ELASTOSIL® 6100 may be discolored in contact with some organic elastomers, e.g. EPDM and neoprene.

ELASTOSIL® 6100 is not recommended for sealing of aquarium or for long term use under water.

ELASTOSIL® 6100 should not be used on pre-stressed polyacrylate elements as it may cause environmental stress cracking.

ELASTOSIL® 6100 must not be used for insulated- and structural glazing or bonding.

ELASTOSIL® 6100 is not suitable for food grade applications where the joints are likely to come in contact with food.

ELASTOSIL® 6100 is not suitable for use as a mirror adhesive.

Packaging and storage

Packaging

ELASTOSIL® 6100 is usually supplied in standard size cartridges that fit all standard caulking guns.

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.

Safety notes

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>. During vulcanization acetic acid 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. Avoid prolonged contact of uncured sealant with the skin - use a dry cloth or paper to remove it.

Keep away from children.

Cured silicone rubber, however, can be handled without any risk to health.

QR Code ELASTOSIL® 6100



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

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