

ELASTOSIL[®] 9000 N



Finished Sealants

ELASTOSIL[®] 9000 N is a one-part, neutral-curing, low modulus silicone sealant with good adhesion and long shelf life for DIY-sector.

ELASTOSIL[®] 9000 N cures at room temperature under the action of atmospheric moisture to give a permanently flexible silicone rubber.

Properties

- long shelf life
- primerless adhesion to most materials
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, fibrous cement
- almost odorless
- non-sag
- ready gunnability at low (+5 °C) and high (+40 °C) temperatures
- rapid crosslinking: quickly becomes tack-free
- flexible at low (-40 °C) and high temperatures (+120 °C)
- good weatherability

Specific features

- Alkoxy-cure

Technical data

Properties Uncured

| Property | Condition | Value | Method |
|----------------------------|------------------|------------------------|------------------------|
| Skin forming time | 23 °C 50 % r.h | 25 min | - |
| Density | 23 °C | 1.00 g/cm ³ | ISO 1183-1 A |
| Consistency ⁽¹⁾ | - | non-sag | ISO 7390, profile U 20 |
| Curing rate | 23 °C 50 % r.h | 2 mm/d | - |
| Extrusion rate - mass flow | 6 bar 23 °C | 400 g/min | - |

¹23°C

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

Properties Cured

after 4 weeks' storage at 23°C / 50% r.h.

| Property | Condition | Value | Method |
|-----------------------------|-----------|------------------------|------------------|
| Movement capability | - | 12.5 % | ISO 11600 |
| Modulus at 100 % elongation | - | 0.37 N/mm ² | ISO 8339 |
| Elongation at break | - | 250 % | ISO 8339 |
| Hardness Shore A | - | 24 | ISO 868 |
| Tear strength | - | 3.0 N/mm | ISO 34, method C |
| Tensile strength | - | 0.5 N/mm ² | ISO 8339 |

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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

- sealing of low stress connection and expansion joints in the building industry
- sealing of low stress perimeter joints

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 a clean, lint-free, cotton cloth. Remove residual solvent before it evaporate with a fresh clean, dry cloth.

It is the responsibility of the user 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.

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

Certification

ELASTOSIL® 9000 N is classified and certified according to

- EN 15651-1, Class F-EXT-INT 12,5 E
- EN 15651-2, Class G
- BS 15651-1, Class F-EXT-INT 12,5 E
- BS 15651-2, Class G
- ISO 11600 F+G, Class 12,5 LM
- ASTM C920, Type S, Grade NS, Class 25, Use NT, A, G and M
- EMICODE EC-1

Adhesion

ELASTOSIL® 9000 N exhibits good primerless adhesion to most of the substrates used in DIY-applications, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker, metals e.g. aluminium, steel, zinc or copper.

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

ELASTOSIL® 9000 N must not be used as a secondary sealant in insulating glass units.

ELASTOSIL® 9000 N must not be used for structural glazing bonding.

ELASTOSIL® 9000 N is not suitable for use on natural stones, such as marble, granite, quartzite, as it can cause staining.

ELASTOSIL® 9000 N is not recommended for sealing of aquaria or for the longer-term use under water.

ELASTOSIL® 9000 N is not suitable for food contact applications.

ELASTOSIL® 9000 N is not suitable for use as a mirror adhesive.

Packaging and storage

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

During vulcanization ethanol 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 unvulcanized RTV-1 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 ELASTOSIL® 9000 N



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

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