ELASTOSIL® 8000 N

ELASTOSIL®

Finished Sealants

ELASTOSIL® 8000 N is a one-part, neutral-curing, low modulus silicone sealant with excellent adhesion and long shelf life for perimeter sealing and glazing applications.
ELASTOSIL® 8000 N cures at room temperature in the presence 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
- compatible with water-based and solvent-based coatings: no plasticizer migration
- 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 (+150 °C)
- excellent weatherability
- excellent processing characteristics for professional use

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	1.02 g/cm^3	ISO 1183-1 A
Consistency[(1)]	-	non-sag	ISO 7390, profile U 20
Curing rate	23 °C | 50 % r.h	3 mm/d	-
Extrusion rate - mass flow	6 bar | 23 °C	300 g/min	-

[1]23°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	-	35 %	ASTM C920
Movement capability	-	25 %	ISO 11600 / EN 15651
Modulus at 100 % elongation	-	0.37 N/mm^2	ISO 8339-A
Elongation at break	-	> 300 %	ISO 8339-A
Hardness Shore A	-	24	ISO 868
Tear strength	-	4.5 N/mm	ISO 34, method C
Tensile strength	-	0.7 N/mm^2	ISO 8339-A

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Applications

- Ready-to-Use Silicone Sealants - Special Applications
- Sealants
- Silicone Sealants

Application details

Fields of application

- sealing of connecting and expansion joints for the building industry
- glass and windows construction
- sealing of joints between glazing and supporting structure (frames, transoms, mullions)

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 evaporates paints 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. Even a longer period of time in the darkness white joints may show a slight yellowing. 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.

Certification

ELASTOSIL® 8000 N is certified and classified according to

- ISO 11600 F/G, class 25 LM
- EN 15651-1, class 25LM F-EXT-INT-CC
- EN 15651-2, class 25LM G-CC
- DIN 18545-2, class E
- ASTM C920, type S, grade NS, class 35
- SNJF F / V, class 25E
- EMICODE EC1 PLUS
- M1-Emission class

Adhesion

ELASTOSIL® 8000 N exhibits excellent primerless adhesion to many substrates, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker, metals e.g. aluminium, steel, zinc or copper, varnished, coated or painted wood, and many plastics.
Users must carry out their own tests due to the great variety of substrates. 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® 8000 N must not be used for insulating glass applications
ELASTOSIL® 8000 N must not be used for structural glazing bonding.
ELASTOSIL® 8000 N is not recommended for use on natural stones, such as marble, granite, quartzite, as it can cause staining.
ELASTOSIL® 8000 N is not recommended for the construction of aquaria.
ELASTOSIL® 8000 N is not suitable for food grade applications where the joints are likely to come in contact with food.
ELASTOSIL® 8000 N is not recommended for application in permanently wet areas where the joint is strongly or permanently exposed to water, e.g. in swimming pools or public sanitary facilities, please contact our technical service.
ELASTOSIL® 8000 N is not suitable for mirror mounting.

Packaging and storage

Packaging

ELASTOSIL® 8000 N is usually supplied in standard size cartridges that fit all standard caulking guns. Other types of packaging, e.g. for industrial applications, can be supplied on request. The product can also be applied by air-operated guns and almost all industrial dispensing equipment.

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 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 ELASTOSIL® 8000 N

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

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