ELASTOSIL® K760 C

ELASTOSIL®

Finished Sealants

ELASTOSIL® K760 C is a one-component, neutral-curing, low modulus silicone sealant with outstanding adhesion, long shelf life, excellent tooling characteristics and very good fire retardant prperties for construction, glass and window building, as well as industrial applications.
ELASTOSIL® K760 C cures at room temperature in the presence of atmospheric moisture to give a permanently flexible silicone rubber.

Properties

- fire retardant
- excellent weatherability
- excellent tooling characteristics for professional use
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, fibrous cement
- matt finish
- excellent adhesion on most substrates without primer
- solvent-free, thus featuring low volume shrinkage during vulcanization
- ready gunnability at low (+ 5 °C) and high (+ 40 °C) temperatures
- flexible at low (-40 °C) and high temperatures (+150 °C)
- almost odorless
- non-sag

Technical data

Properties Uncured

Property	Condition	Value	Method
Consistency	-	non-sag	ISO 7390, profile U 20
Density	-	1.40 g/cm^3	ISO 1183-1 A
Skin formation time	-	20 min	-

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

Properties Cured

Property	Condition	Value	Method
Hardness Shore A	-	22	ISO 868
Modulus at 100 % elongation	-	0.40 N/mm^2	ISO 8339-A
Movement capability	-	± 50 %	ASTM C920
Movement capability	-	25 %	ISO 11600
Tensile strength	-	0.5 N/mm^2	ISO 8339-A
Ultimate elongation	-	250 %	ISO 8339-A

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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

- ELASTOSIL® - Ready-to-Use Construction Sealants
- Sealants

Application details

Application fields

- sealing of connection and expansion joints in the building industry
- sealing of perimeter joints
- sealing of joints between glazing and supporting structures (frames, transoms, mullions)
- Industrial application as sealant in the automotive, aircraft and shipbuilding industries

Processing

The substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material, 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 with a fresh clean, dry cloth.

Certification

ELASTOSIL® K760 C is certified and classified according to

- ISO 11600 F/G, Class 25LM
- EN 15651-1, Class 25LM F-EXT-INT-CC
- EN 15651-2, Class 25LM G-CC
- ASTM C920, Class 50/50
- EN 13501-1, Class B-s2,d0
- EN 13501-2, Class E 240-H-X-F- W15-25
- EN 13501-2, Class EI 240-H-X-F- W15-25
- EN 13501-2, Class E 240-V-X-F- W5-25
- EN 13501-2, Class EI 240-V-X-F- W5-25

Adhesion

ELASTOSIL® K760 C exhibits excellent primerless adhesion to many substrates, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker e.g. aluminium, steel, zinc or copper wood, and many plastics. 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® K760 C must not be used for insulating glass applications
ELASTOSIL® K760 C must not be used for structural glazing bonding - 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.
ELASTOSIL® K760 C is not recommended for use on natural stones, such as marble, granite, quartzite, as it can cause staining.
ELASTOSIL® K760 C is not recommended for sealing of aquaria or for longer term use under water.
ELASTOSIL® K760 C is not suitable for food grade applications where the joints are likely to come in contact with food.
ELASTOSIL® K760 C 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

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 methanol and ethanol are 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.
Additional information
- EN 15651-1, class F-EXT-INT 25LM
- EN 15651-2, class G-25 LM
- ISO 11600 F+G, class 25 LM
- ASTM C920, class 50/50
- EN 13501-1, class B-s2, d0
- EN 13501-2, class EI 240-H-X-F-W15-25
- EN 13501-2, class E 240-H-X-F-W15-25
- EN 13501-2, class EI 240-V-X-F-W5-25
- EN 13501-2, class E 240-V-X-F-W5-25

QR Code ELASTOSIL® K760 C

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

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