

ELASTOSIL[®] eco 7770 P



Finished Sealants

ELASTOSIL[®] eco 7770 P is a one-part, neutral-curing, low modulus silicone sealant with outstanding adhesion properties, long shelf life, and very good working properties for construction and sanitary applications, especially for sealing natural substrates as granite or marble.

ELASTOSIL[®] eco 7770 P cures at room temperature in the presence of atmospheric moisture to give a permanently flexible silicone rubber.

Properties

- 100% silicone
- suitable for areas with high humidity, e.g., sanitary areas
- long shelf-life
- especially suitable for sealing natural stones such as marble, granite, sandstone, and quartzite; no staining of joint edges
- primerless adhesion to most materials
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, and fibrous concrete
- almost odorless
- non-sag
- high abrasion resistance
- ready gunnability at low (+5 °C) and high (+40 °C) temperatures
- rapid crosslinking: quickly becomes tack-free
- elastic at low (-40°) and higher temperatures (+150°C)
- excellent weatherability

Specific features

- Alkoxy-cure

Technical data

Properties Uncured

Property	Condition	Value	Method
Skin forming time	23 °C 50 % r.h	15 min	-
Density	23 °C	1.02 g/cm ³	ISO 1183-1 A
Consistency ⁽¹⁾	-	non-sag	ISO 7390, profile U 20
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

Property	Condition	Value	Method
Movement capability	-	25 %	ISO 11600
Modulus at 100 % elongation	-	0.35 N/mm ²	ISO 8339-A
Elongation at break	-	250 %	ISO 8339
Hardness Shore A	-	21	ISO 868
Tear strength	-	4.0 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 - Special Applications
- Sealants
- Silicone Sealants

Application details

Application fields

- application on natural stones, e.g., marble, granite, sandstone, and quartzite
- sealing of connecting and expansion joints in the building industry
- sealing of joints in sanitary applications
- sealing of joints between glazing and supporting structures (frames, transoms, mullions)

Processing

Surfaces that will come into contact with the sealant must be dry, clean, and free of dust, dirt, rust, oil, or similar contaminants. Non-porous surfaces should be cleaned using a solvent and a clean, lint-free cotton cloth. The area must then be immediately wiped dry with a second clean cloth before the solvent evaporates.

It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating materials (e.g., paints, varnishes, and glazes) or organic plasticizer containing rubbers (e.g., EPDM, butyl, and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Substances that come into direct contact with the sealant after application, such as cleaning agents, or indirect contact through outgassing, can impair the function of the sealant or alter its appearance.

Due to the wide variety of possible materials and substrates, especially with plastics, WACKER cannot make any general statements regarding compatibility or adhesion. In case of doubt, users must carry out their own preliminary tests.

A decrease in temperature or humidity, as well as restricted air circulation, can significantly extend the time required for complete curing.

Certification

ELASTOSIL® eco 7770 P is certified and classified according to

- EN 15651-1, class 25 LM F-EXT-INT-CC
- EN 15651-2, class 25 LM G-CC
- EN 15651-3, class XS 2
- EN 15651-4, class 25LM EXT-INT-CC
- EMICODE EC 1 PLUS

Adhesion

ELASTOSIL® eco 7770 P adheres excellently to most substrates commonly found in sanitary areas—even without prior treatment with primers—such as glass, tiles, ceramics, glazed tiles, enamel, and clinker, as well as metals like aluminum, steel, zinc, and copper, painted, stained, or impregnated 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® eco 7770 P must not be used as a secondary sealant in insulating glass units or structural glazing or bonding.

ELASTOSIL® eco 7770 P is not suitable for sealing of aquaria or for long-term use under water.

ELASTOSIL® eco 7770 P is not suitable for food grade applications where the joints are likely to come in contact with food.

ELASTOSIL® eco 7770 P 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® eco 7770 P



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

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