

WACKER[®] GLAZING AND METAL

High-Performance Silicone Sealant for Sealing, Bonding and Mending Tasks

Characteristics

WACKER[®] GLAZING AND METAL is a one-part, neutral-curing, low modulus silicone sealant with good adhesion and long shelf life for sealing, bonding and mending tasks.

WACKER[®] GLAZING AND METAL cures at room temperature under the action of atmospheric moisture to give a permanently flexible silicone rubber.

Special characteristics

- non-sag
- readily gunnable at low (+5°C) and high (+40°C) temperatures
- flexible at low (-50°C) and high temperatures (+150°C)
- good weatherability
- low odor
- good tooling characteristics
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, fibrous cement

Applications

- silicone sealants for sealing, bonding and mending tasks in particular in case of contact with metals, plastics or alkaline substrates

Restrictions on use

WACKER[®] GLAZING AND METAL may be discolored in contact with some organic elastomers, e.g. EPDM, APTK and neoprene.

WACKER[®] GLAZING AND METAL is not suitable for applications involving contact with natural stone, such as marble, granite, quartzite, as it can cause staining.

WACKER[®] GLAZING AND METAL is not recommended for sealing of aquaria.

WACKER[®] GLAZING AND METAL is not recommended for structural glazing bonding.

The curing time can be extended at lower temperature, lower humidity or by low volume of air exchange.

Preparation

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.

Adhesion

WACKER[®] GLAZING AND METAL exhibits good primerless adhesion to many non-porous siliceous materials, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker; metals, e.g. aluminium, steel, zinc or copper; impregnated, varnished or painted wood; and many plastics and porous substrates, e.g. concrete, masonry or brick.

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.

Product data

Unvulcanized rubber

Property	Test procedure	Unit	Value
Density at 23°C	ISO 1183 - 1	[g/cm ³]	0.99*
Consistency	ISO 7390		Non-sag
Extrusion rate at 23°C	PV 08127	[g/min]	400
Skin-forming time at 23°C / 50 % r.h.	PV 08112	[min]	approx. 25
Cure rate at 23°C / 50 % r.h.		[mm/day]	approx. 2

* transparent

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

Product data

Vulcanized rubber
After 4 weeks' storage at 23 °C / 50 % relative humidity

Property	Test procedure	Unit	Value
Tensile strength	ISO 8339	[N/mm ²]	0.5
Ultimate elongation	ISO 8339	[%]	250
Modulus at 100 % elongation	ISO 8339	[N/mm ²]	0.36
Hardness, Shore A	ISO 868		22
Movement capability	ISO 11600	[%]	20
Tear strength	ISO 34, method C	[N/mm]	3.0

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

Storage

WACKER® GLAZING AND METAL has a shelf life of at least 12 months when stored in a cool (below 25 °C), dry place in moisture-tight original container.

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 information

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.

Comprehensive instructions are given in the corresponding Material Safety Data Sheet. They are available from Wacker subsidiaries.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001



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

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