

WACKER® GM - GLAZING AND METAL 7

SEALANTS AND ADHESIVES

Product description

WACKER® GM - GLAZING AND METAL 7 is a one-part, neutral low modulus silicone sealant with good adhesion for glazing and metal application.

Properties

WACKER® GM - GLAZING AND METAL 7 cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.



Special features

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

Application

- Sealant designed for low stress connection, expansion and perimeter joints in the building industry
- Particularly suitable where substrates are either metal, plastic or alkaline

Adhesion

WACKER® GM - GLAZING AND METAL 7 exhibits excellent primerless adhesion to most non-porous siliceous materials (e.g. glass, tiles, ceramics, enamel, glazed tiles); metals (e.g. aluminum, steel, zinc or copper); impregnated, varnished or painted wood; and some plastics.

Users must carry out own tests due to the great variety of substrates.

The adhesion can be improved in many cases by pretreatment of the substrate with a primer.

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 clean, lint-free, cotton cloth. Remove residual solvent before it evaporates with a fresh clean, dry cloth. For application from cartridges cut thread open, fix nozzle on top and cut to required bead size. The sealant can be applied in beads or layers. It requires moisture in order to cure.

The curing time can take longer at lower temperatures, lower humidity or by low volume of air exchange.

Restrictions on use

WACKER® GM - GLAZING AND METAL 7 is not suitable for applications involving contact with natural stone, such as marble, granite, quartzite, as it can cause staining. In this case use an alternative grade such as WACKER® 460 – NATURAL STONE.

WACKER® GM - GLAZING AND METAL 7 is not suitable for insulating glass applications.

WACKER® GM - GLAZING AND METAL 7 is not

recommended for sealing of aquarium or for long term use under water. WACKER® 121 - AQUARIUM has been specifically developed for aquarium applications. WACKER® GM - GLAZING AND METAL 7 must not be used for structural glazing bonding.

WACKER® GM - GLAZING AND METAL 7 is not suitable for food grade applications where the joints are likely to come in contact with food. For this application please use WACKER® 120 – FOOD CONTACT.

WACKER® GM - GLAZING AND METAL 7 is not suitable for use as a mirror adhesive. For this application please use WACKER® HA - HYBRID ADHESIVE.

It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coatings or organic plasticizers can lead to discoloration of the sealant. Cleaning agents and gaseous emissions can damage the sealant in its function or change its appearance. WACKER cannot make a general statement to the compatibility of all these varying materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests.

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.

Packaging

WACKER® GM - GLAZING AND METAL 7 is usually supplied in standard size cartridges that fit all standard caulking guns.

Safety notes

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>.

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. Avoid prolonged contact of uncured sealant with the skin - use a dry cloth or paper to remove it.

Keep out of reach of children.

Cured silicone rubber, however, can be handled without any risk to health.

Product data

Typical general characteristics	Inspection Method	Value
Cure type		Alkoxy
Uncured / unvulcanized paste		
Density at 23 °C	ISO 1183-1 A	1,0 g/cm ³
Consistency	ISO 7390	non-sag
Skin forming time at 23 °C / 50 % r.h.	internal method	approx. 35 min
Extrusion rate at 6 bar	internal method	400 g/min
Cured / vulcanized rubber		
Hardness Shore A	ISO 868	24
Modulus at 100 % (joint)	ISO 8339-A	0,37 N/mm ²
Tensile strength (joint)	ISO 8339-A	0,5 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	250 %
Modulus at 100 % (S2-dumbbell)	ISO 37	0,39 N/mm ²
Tensile strength (S2-dumbbell)	ISO 37	1,66 N/mm ²
Ultimate elongation (S2-dumbbell)	ISO 37	560 %
Movement capability	ISO 9047	20 %

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

The data presented in this medium 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 medium 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 information provided by us does 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 product 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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