

# WACKER® GP – GENERAL PURPOSE

SEALANTS AND ADHESIVES

## Product description

WACKER® GP – GENERAL PURPOSE is a one-part, acetoxy silicone sealant for many applications.

## Properties

WACKER® GP – GENERAL PURPOSE cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.



## Special features

- long shelf life
- non-sag
- ready gunnability 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 (+ 100 °C) following cure
- adheres excellently to glass, vitrified surfaces, ceramic tiles, many plastics and most paints

## Application

- Sealant for a variety of DIY applications
- Suitable for many general industrial sealing and bonding uses

### Adhesion

WACKER® GP – GENERAL PURPOSE exhibits excellent primerless adhesion to most non-porous siliceous materials (e.g. glass, tiles, ceramics, enamel, glazed tiles); 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® GP – GENERAL PURPOSE should not be used on substrates such as marble, concrete, fibrous cement and mortar, as the product releases acetic acid during curing. In this case use a neutral grade such as WACKER® WN - WEATHERSEAL NEUTRAL or WACKER® 460 - NATURAL STONE. WACKER® GP – GENERAL PURPOSE should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.

WACKER® GP – GENERAL PURPOSE may be discolored in contact with some organic elastomers, e.g. EPDM and neoprene.

WACKER® GP – GENERAL PURPOSE 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® GP – GENERAL PURPOSE is not suitable for insulating glass applications.

WACKER® GP – GENERAL PURPOSE 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® GP – GENERAL PURPOSE should not be used on pre-stressed polyacrylate elements as it may cause environmental stress cracking.

WACKER® GP – GENERAL PURPOSE 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 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® GP – GENERAL PURPOSE 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 acetic acid 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. 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		Acetoxy
<b>Uncured / unvulcanized paste</b>		
Density at 23 °C	ISO 1183-1 A	0,97 g/cm <sup>3</sup>
Consistency		non-sag
Extrusion rate at 6 bar	internal method	800 g/min
Skin forming time at 23 °C / 50 % r.h.	internal method	approx. 25 min
<b>Cured / vulcanized rubber</b>		
Hardness Shore A	ISO 868	18
Modulus at 100 % (joint)	ISO 8339-A	0,36 N/mm <sup>2</sup>
Tensile strength (joint)	ISO 8339-A	0,5 N/mm <sup>2</sup>
Ultimate elongation (joint)	ISO 8339-A	150 %
Modulus at 100 % (S2-dumbbell)	ISO 37	0,29 N/mm <sup>2</sup>
Tensile strength (S2-dumbbell)	ISO 37	1,22 %
Ultimate elongation (S2-dumbbell)	ISO 37	520 %
Movement capability	ISO 9047	none

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

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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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