WACKER® 500 - WINDOW GLAZING PERIMETER

WACKER Brand

WACKER® 500 is a one-part, neutral-curing, low-modulus silicone sealant with outstanding adhesion, long shelf life and excellent tooling characteristics.
WACKER® 500 cures at room temperature under the action of atmospheric moisture to give a permanently flexible silicone rubber.

Properties

- Non-sag
- Ready gunnability at low (+5°C) and high (+40°C) temperature
- Flexible at low (-40°C) and high temperatures (+150°C)
- Excellent weatherablity
- Almost odorless
- Primerless to most materials
- Excellent tooling characteristics for professional use
- Non-corrosive to metals
- Suitable for alkaline substrates such as concrete, mortar, fibrous cement
- Compatible with water-based and solvent-based
coatings: no plasticizer migration
- Long shelf life

Technical data

Properties Uncured

Property	Condition	Value	Method
Density	-	1.01 g/cm^3	ISO 1183-1 A
Consistency	-	Non-sag	ISO 7390, profile U 20
Extrusion rate - volume flow	-	400 ml/min	internal method
Skin formation time	-	15 min	internal method

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	-	0.37 N/mm^2	ISO 8339
Elongation at break	-	300 %	ISO 8339
Hardness Shore A	-	24	ISO 868
Tensile strength	-	0.7 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

- Exterior Applications
- Interior Applications
- Sealants
- Silicone Sealants WACKER Brand

Application details

Applications

- Sealing of connecting and expansion joints in the building industry
- Especially suitable for perimeter sealing

Restrictions on use

WACKER® 500 may be discolored in contact with some organic elastomers, e.g. EPDM, APTK and neoprene.
WACKER® 500 is not recommended for use on natural stone, such as marble, granite, quartzite, as it can cause staining.
WACKER® 500 must not be used for sealing of auqaria.
WACKER® 500 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. Wipe dry immediately with another such cloth before the solvent evaporates from the surface.

Adhesion

WACKER® 500 exhibits excellent primerless adhesion to most non-porous siliceous material, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker; impregnated, varnished or painted wood; and some 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.

Packaging and storage

Storage

WACKER® 500 has a shelf life of at least 12 months when stored at a cool dry place (below 25°C).
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 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. Cured silicone rubber, however, can be handled without any risk to health.
TLV of methanol: 200 ppm or 260 mg/m3.
Comprehensive instructions are given in the corresponding Material Safety Data Sheets.
They are available from Wacker subsidiaries.

QR Code WACKER® 500 - WINDOW GLAZING PERIMETER

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

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