

WACKER® WEATHERSEAL NEUTRAL

WACKER Brand

WACKER® WN - WEATHERSEAL NEUTRAL is a one-component, neutral-curing, high modulus silicone sealant with outstanding adhesion and weather resistance, long shelf life and excellent tooling characteristics for construction, glass and window building.

WACKER® WN - WEATHERSEAL NEUTRAL cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.



Properties

- 100% silicone
- excellent weatherability
- excellent tooling characteristics for professional use
- excellent fire rated properties up to 3 hours
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, fibrous cement
- matt finish
- excellent adhesion on most substrates without primer
- solvent-free, thus featuring low volume shrinkage during vulcanization
- ready gunnability at low (+ 5 °C) and high (+ 50 °C) temperatures
- flexible at low (-40 °C) and high temperatures (+150 °C)
- non-sag

Technical data

Properties Uncured

Property	Condition	Value	Method
Skin forming time	25 °C 50 % r.h	15 min	-
Density Density (colours)	23 °C	1.37 g/cm ³	ISO 1183-1 A
Density Density (transparent)	23 °C	1.00 g/cm ³	ISO 1183-1 A
Consistency	-	non-sag	ISO 7390, profile U 20
Extrusion rate	6 bar 25 °C	330 g/min	-

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
Movement capability	-	50 %	ASTM C920
Modulus	100 %	0.54 N/mm ²	ISO 8339-A
Elongation @ break	-	130 %	ISO 8339-A
Hardness Shore A	-	32	ISO 868
Tensile strength	-	0.55 N/mm ²	ISO 8339-A

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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
- Sealants
- Silicone Sealants WACKER Brand

Application details

Application fields

- sealing of connection and expansion joints in the building industry
- sealing of perimeter joints
- sealing of joints between glazing and supporting structures (frames, transoms, mullions)

Processing

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.

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.

The use of tooling agents should be avoided if possible. Otherwise, water or a diluted solution of a little neutral soap or alcohol in water should be sparingly applied.

Certification

WACKER® WN - WEATHERSEAL NEUTRAL is certified and classified according to

- ISO 11600 F+G, Class 25HM
- ASTM C920, Class 50
- EN 13501-2, E 180-H-X-F-W4-25
- EN 13501-2, EI 180-H-X-F-W4-25
- EN 13501-2, E 180-V-X-F-W4-25
- EN 13501-2, EI 180-V-X-F-W4-25

Adhesion

WACKER® WN - WEATHERSEAL NEUTRAL exhibits excellent primerless adhesion to many substrates, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker e.g. aluminium, steel, zinc or copper 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

WACKER® WN - WEATHERSEAL NEUTRAL must not be used for insulating glass applications

WACKER® WN - WEATHERSEAL NEUTRAL 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 coating materials (paints, varnishes and glazes) or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials, Wacker cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests. The time until complete curing may be extended at lower temperature, lower humidity, increasing film thickness or by low volume of air exchange. Otherwise, water or a diluted solution of a little neutral soap or alcohol in water should be sparingly applied.

WACKER® WN - WEATHERSEAL NEUTRAL must not be used for insulating glass applications.

WACKER® WN - WEATHERSEAL NEUTRAL is not recommended for structural glazing bonding.

WACKER® WN - WEATHERSEAL NEUTRAL may be discolored in contact with some organic elastomers, e.g. EPDM, APTK and neoprene.

WACKER® WN - WEATHERSEAL NEUTRAL is not recommended for use on natural stones, such as marble, granite, quartzite, as it can cause staining. In this case use an alternative grade such as WACKER® 460 - NATURAL STONE.

WACKER® WN - WEATHERSEAL NEUTRAL is not recommended for sealing of aquaria or for long term use under water.

WACKER® WN - WEATHERSEAL NEUTRAL is not suitable for food grade applications where the joints are likely to come in contact with food. For this application WACKER® 120 - FOOD AND WATER has been developed

WACKER® WN - WEATHERSEAL NEUTRAL is not suitable for use as a mirror adhesive.

Packaging and storage

Packaging

WACKER® WN - WEATHERSEAL NEUTRAL is usually supplied in standard size cartridges that fit all standard caulking guns. Additionally it is available in convenient sausages.

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. Store dry and cool.

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 methylethylketoxime 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.

Additional information

WACKER® WN - WEATHERSEAL NEUTRAL meets following specifications:

- ISO 11600 F-25HM

-ASTM C920, class 50

QR Code WACKER® WN - WEATHERSEAL NEUTRAL



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

Wacker Chemie AG, Gisela-Stein-Strasse 1, 81671 Munich, Germany
productinformation@wacker.com, www.wacker.com

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