

WACKER® WN - WEATHERSEAL NEUTRAL

WACKER Brand

WACKER® WN - WEATHERSEAL NEUTRAL is a one-component, neutral-curing, low 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
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, and 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
Density	-	1.37 g/cm ³	ISO 1183-1 A
Consistency	-	non-sag	ISO 7390, profile U 20
Extrusion rate - mass flow	-	330 g/min	internal method
Skin formation time	-	approx. 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	-	50 %	ASTM C920
Modulus at 100 % elongation (S2-dumbbell)	-	0.61 N/mm ²	ISO 37
Modulus at 100 % elongation (joint)	-	0.54 N/mm ²	ISO 8339
Hardness Shore A	-	32	ISO 868
Tensile strength (S2-dumbbell)	-	1.4 N/mm ²	ISO 37 type 1
Tensile strength (joint)	-	0.55 N/mm ²	-
Ultimate elongation (S2-dumbbell)	-	520 %	-
Ultimate elongation (joint)	-	130 %	-

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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
- 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

Surfaces that will come into contact with the sealant must be dry, clean, and free of dust, dirt, rust, oil, or similar contaminants. Non-porous surfaces should be cleaned using a solvent and a clean, lint-free cotton cloth. The area must then be immediately wiped dry with a second clean cloth before the solvent evaporates.

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. A decrease in temperature or humidity, as well as restricted air circulation, can significantly extend the time required for complete curing.

It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating materials (e.g., paints, varnishes, and glazes) or organic plasticizer containing rubbers (e.g., EPDM, butyl, and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Substances that come into direct contact with the sealant after application, such as cleaning agents, or indirect contact through outgassing, can impair the function of the sealant or alter its appearance.

Due to the wide variety of possible materials and substrates, especially with plastics, WACKER cannot make any general statements regarding compatibility or adhesion. In case of doubt, users must carry out their own preliminary tests.

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

- 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 adheres excellently to many non-porous, silicate-based substrates—such as glass, tiles, ceramics, glazed tiles, enamel, and clinker—without the need for prior treatment with primers. It also bonds well to metals such as aluminum, steel, zinc, and copper, to painted, stained, or impregnated wood, as well as to 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.

WACKER® WN - WEATHERSEAL NEUTRAL is not recommended for use on natural stones, such as marble, granite, and quartzite, as it can cause staining.

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.

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

Keep out of reach of children.

QR Code WACKER® WN - WEATHERSEAL NEUTRAL



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

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