

# WACKER® WS - WEATHERSEAL SUPERIOR

## WACKER Brand

WACKER® WS - WEATHERSEAL SUPERIOR is a one-part neutral silicone sealant that will not stain exterior substrates. It exhibits good adhesion without primer on most building materials and displays outstanding weather resistance and durability.



## Properties

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

- long shelf life
- non-sag
- readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- good tooling properties
- good weatherability
- good adhesion
- excellent durability

## Technical data

### Properties Uncured

Property	Condition	Value	Method
Density	23 °C	1.28 g/cm <sup>3</sup>	ISO 1183-1 A
Consistency	-	non-sag	ISO 7390, profile U 20
Extrusion rate - mass flow	6.0 bar	144.0 g/min	-
Skin formation time <sup>(1)</sup>	-	approx. 20 min	internal method

<sup>1</sup>at 23 °C / 50 % r.h.

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	100.0 %	0.51 N/mm <sup>2</sup>	ISO 37
Modulus at 100 % elongation joint	100.0 %	0.49 N/mm <sup>2</sup>	ISO 8339
Hardness Shore A	-	30	ISO 868
Tensile strength <sup>(1)</sup>	-	0.61 N/mm <sup>2</sup>	ISO 8339-A
Tensile strength <sup>(2)</sup>	-	1.30 N/mm <sup>2</sup>	ISO 37
Ultimate elongation S2-dumbbell	-	590.0 %	-
Ultimate elongation joint	-	270.0 %	-

<sup>1</sup>(joint)

<sup>2</sup>(S2-dumbbell)

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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

- Silicone Sealants WACKER Brand

## Application details

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® WS - WEATHERSEAL SUPERIOR 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® WS - WEATHERSEAL SUPERIOR 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® WS - WEATHERSEAL SUPERIOR is not suitable for the following plastic substrates such as Polyethylene, Polypropylene, ABS, PMMA (Plexiglas®), Polycarbonate (PC). 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. - Developed for sealing external and internal connection and expansion joints where a non-staining material is desirable - Equally suitable for stone and ceramic joints as well as aluminum curtain wall and panel joints Adhesion WACKER® WS - WEATHERSEAL SUPERIOR 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) or painted wood 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.

## Packaging and storage

### Packaging

WACKER® WS - WEATHERSEAL SUPERIOR 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.

## QR Code WACKER® WS - WEATHERSEAL SUPERIOR



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

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