

# WACKER® CS - CONSTRUCTION SEAL

## WACKER Brand

WACKER® CS - CONSTRUCTION SEAL is a one-component, neutral-curing, low modulus silicone sealant with outstanding adhesion, long shelf life and excellent tooling characteristics for construction, glass and window building. WACKER® CS - CONSTRUCTION SEAL cures at room temperature in the presence of atmospheric moisture to give a permanently flexible silicone rubber.

## Properties

- excellent weatherability
- excellent tooling characteristics for professional use
- 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 (+ 40 °C) temperatures
- flexible at low (-40 °C) and high temperatures (+150 °C)
- almost odorless
- non-sag

## Technical data

### Properties Uncured

Property	Condition	Value	Method
Skin forming time	23 °C   50 % r.h	15 - 25 min	-
Density	23 °C	1.40 g/cm <sup>3</sup>	ISO 1183-1 A
Consistency	-	non-sag	ISO 7390, profile U 20
Extrusion rate - mass flow	6 bar   23 °C	130 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	-	20 %	ISO 11600
Movement capability	-	35 %	ASTM C920
Modulus at 100 % elongation	-	0.40 N/mm <sup>2</sup>	ISO 8339
Modulus at 100 % elongation	-	0.38 N/mm <sup>2</sup>	ISO 37
Elongation at break	-	250 %	ISO 8339
Elongation at break	-	560 %	ISO 37
Hardness Shore A	-	22	ISO 868
Tensile strength	-	0.50 N/mm <sup>2</sup>	ISO 8339
Tensile strength	-	0.38 N/mm <sup>2</sup>	ISO 37

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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® CS - CONSTRUCTION SEAL is certified and classified according to

- ISO 11600 F/G, Class 20 LM
- EN 15651-1, Class 20LM F-EXT-INT-CC
- EN 15651-2, Class 20LM G-CC
- ASTM C920, Class 35

### Adhesion

WACKER® CS - CONSTRUCTION SEAL 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

It is the user's responsibility 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® CS - CONSTRUCTION SEAL must not be used for insulating glass applications.

WACKER® CS - CONSTRUCTION SEAL is not recommended for structural glazing bonding.

WACKER® CS - CONSTRUCTION SEAL may be discolored in contact with some organic elastomers, e.g. EPDM, APTK and neoprene.

WACKER® CS - CONSTRUCTION SEAL 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® CS - CONSTRUCTION SEAL is not recommended for sealing of aquaria or for long term use under water

WACKER® CS - CONSTRUCTION SEAL 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® CS - CONSTRUCTION SEAL is not suitable for use as a mirror adhesive.

## Packaging and storage

### 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.

## Safety notes

During vulcanization methanol and ethanol are 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. Keep out of reach of children. 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>.

## QR Code WACKER® CS - CONSTRUCTION SEAL



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

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