

WACKER® 460 - NATURAL STONE

WACKER Brand

WACKER® 460 - NATURAL STONE is a one-part, neutral, low modulus silicone sealant for sealing natural substrates such as marble. It is equally suitable for further indoor use or in sanitary applications.

WACKER® 460 - NATURAL STONE cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.

Properties

- suitable for use in sanitary areas
- long shelf life
- primerless adhesion to most materials
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, fibrous cement
- almost odorless
- non-sag
- ready gunnability at low (+5 °C) and high (+40 °C) temperatures
- rapid crosslinking: quickly becomes tack-free
- flexible at low (-40 °C) and high temperatures (+150 °C)
- excellent weatherability

Technical data

Properties Uncured

Property	Condition	Value	Method
Density	23 °C	1.02 g/cm ³	ISO 1183-1 A
Consistency	-	non-sag	ISO 7390, profile U 20
Extrusion rate - mass flow ⁽¹⁾	-	400 g/min	internal method
Skin formation time	-	approx. 15 min	-

¹at 6 bar

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 9047
Modulus at 100 % elongation (S2-dumbbell)	-	0.37 N/mm ²	ISO 37
Modulus at 100 % elongation (joint)	-	0.35 N/mm ²	ISO 8339
Hardness Shore A	-	21	ISO 868
Tensile strength (S2-dumbbell)	-	0.95 N/mm ²	ISO 37 type 1
Tensile strength (joint)	-	0.5 N/mm ²	-
Ultimate elongation (S2-dumbbell)	-	360 %	-
Ultimate elongation (joint)	-	250 %	-

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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
- Specific Application

Application details

Processing

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® 460 - NATURAL STONE is not suitable for insulating glass applications.

WACKER® 460 - NATURAL STONE is not recommended for sealing of aquarium or for long term use under water.

WACKER® 121 - AQUARIUM has been specifically developed for aquarium applications.

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.

Application

- Specially developed for sealing of natural substrates

such as marble, granite, sandstone and quartzite

- Sealing joints for interior and exterior facades

e.g. for sanitary applications where natural

stone is the substrate*

Adhesion WACKER® 460 - NATURAL STONE 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); impregnated, varnished or painted wood; and some plastics.

Users must carry out own tests due to the great variety of substrates.

For critical applications in facades made of natural substrate we recommend using WACKER® Primer G 783.

Packaging and storage

Packaging

WACKER® 460 - NATURAL STONE is usually supplied in standard size cartridges that fit all standard caulking guns.

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

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 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. 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® 460 - NATURAL STONE meets following specifications:

- ASTM C 1248

- ASTM C 920, Class 25

- ISO 11600-G, Class 25 LM

- ISO 11600-F, Class 25 LM

- DIN 18545-2, Group E

QR Code WACKER® 460 - NATURAL STONE



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

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