

weber silikon optima

General purpose silicone

Technical Data Sheet
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■ Description

Single component, ready-to-use, humid-curing, acetoxy based silicone.

■ Advantages

- Permanent flexibility
- Perfect adherence
- Resistant to molding
- Easy and quick application

■ Application areas

Used as general purpose silicone on all vertical and horizontal joint applications in bathrooms, toilets and similar wet areas.



■ Application substrates

Interiors;

- Concrete, pre-cast concrete, fiber concrete and concrete panels;
- Wood, metal, aluminium, brick, tile, marble, glass, galvanized sheets and many plastic substrates;

Please consult us for all other application substrates.

■ Preparation of substrates

- Joint areas should be dry and clean while applying **weber silikon optima**; and should be free from any kind of cement, oil, adhesive and paint residues.
- No coating should be on nonporous substrates like glass and metal; cleaned with cellulosic thinner as pretreatment if necessary.
- Additionally, metal substrates should be treated with anticorrosive materials.
- Use of masking tapes recommended on sensitive substrates and where straight and sharp edge formation required.

■ Application conditions

- Surface and ambient temperature between +5°C and +40°C.
- Avoid application in extremely hot and/or damp weather.
- Should not be used on frozen or melting substrates, or substrates with the risk of frost within 24 hours.

■ Application

- During application, **weber silikon optima** should contact both sides of the joint and polyethylene cord.
- The material should be applied equally and continually while the tip of the cartridge remains within the joint.
- For correct application, the sealant should be applied as a single layer, not in multiple layers.
- Smooth the surface of the sealant and check for the adhesion on the substrate right after the application. Possible air bubbles in the material should be let off during this process.
- The substrate can be smoothed with a suitable material soaked with soap water solution.
- Remove masking tapes before **weber silikon optima** dries.
- **weber silikon optima** should not be used in unventilated areas as it requires moisture for curing.
- Application tools should be cleaned using acetone.

■ Application tools

Caulking gun

■ Consumption

2,5 m/cartridge (1x1 cm joint)

■ Points of attention

- **weber silikon optima** adheres on many smooth surface structural elements without primer. However, a minor test is recommended before application on very absorbent or glossy, treated or painted coatings.
- Ideal joint width should be two times of joint depth for joint applications.
- Not recommended for use on porous substrates like marble, natural stone, concrete, etc.
- Avoid application on mirrors and sensitive metals like copper, brass, lead as acetic acid occurs while curing.
- Not paintable.
- Not suitable for use in aquariums.

■ Technical specifications

PRODUCT	weber silikon optima
Chemical structure	Acetoxy silicone
Packaging	280 g cartridge
Colour	Transparent, white
Density	0,96±0,03 g/cm ³
Surface drying (25°C, %50 rh)	11-12 min
Curing speed (25°C, %50 rh)	2 mm/day
Tensile strength at break	≥1,5 MPa
Elongation at break	≥%300
%100 modulus of elongation	>0,55 MPa
Application temperature	Between +5°C and +40°C
Temperature resistance (cured)	Between -45°C and +150°C
Shore A hardness	16-17 Shore A

LEGAL DISCLAIMER

Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. is not responsible for any errors arising from the use of product beyond its intended purpose or not complying the application procedures mentioned above.

■ Storage

Packaging	280 g cartridge
Colour	White, transparent
Shelf life	• 1 year from date of manufacture when stored unopened and undamaged, away from direct sunlight, between +5°C and +25°C, in a dry, moisture-free environment.

■ Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses).
- Protect your eyes/face.
- Avoid direct contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.
- Please read Material Safety Data Sheet (MSDS) for further safety information.

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures.

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