

WACKER

CREATING TOMORROW'S SOLUTIONS



EXPERT SEALANT TECHNOLOGY



WACKER®

ADHESIVES & SEALANTS | SILICONE SEALANTS | MEA

EASY SEALING WITH WACKER® SILICONE SEALANTS

Product Overview

HIGH-PERFORMANCE SILICONE SEALANTS FOR EXCELLENT RESULTS

A silicone sealant can always be used where a gap requires filling or a joint needs to be sealed. Compared with alternative sealing systems, silicone sealants will last a very long time, thanks to their stable quality. Silicone sealants do not exhibit high shrinkage and have excellent movement capability, making them ideally suited for walls and floors of buildings or sinks and bathtubs that are typically exposed to some movement. Furthermore, silicone sealants offer cost-efficient yet durable solutions.

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For more information on WACKER® silicone sealants, please visit: wacker.com/wackerlabel



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PRODUCT SELECTOR

Application



	GP	GP+	VS	GM	CS	130	WN	405	465	HT
Base	Acetoxo	Acetoxo	Acrylic	Alkoxy	Alkoxy	Acetoxo	Oxime	Alkoxy	Alkoxy	Hybrids
Movement %	25	25	25	25	25	25	50	50	50	
Flexibility	●	●		●●	●●	●●	●●●	●●●	●●●	
Finish	glossy	glossy	matt	glossy	matt	glossy	matt	matt	matt	matt
Paintable			●●●							●●●
Outdoor	●●	●●		●●●	●●●	●●●	●●●	●●●	●●●	●●●
Indoor	●●	●●	●●●	●●●	●●●	●●●	●●	●●●	●●●	●●●
Sanitary	●●	●●●								
Windows & Doors	●●	●●	●●	●●	●●	●●	●●	●●●	●●●	
Mirror										●●●
Weathersealing				●●	●●	●	●●●	●●●	●●●	
Glazing				●	●	●●	●●●	●●●	●●●	
Facade				●●	●●		●●●	●●●	●●●	
Construction Joints				●●	●●		●●●	●●●	●●●	
Cladding				●●	●●		●●●	●●●	●●●	
Structural Glazing										
Fire Protection							●●●		●●●	
Fix/Bonding										●●●

● suitable
 ●● recommended
 ●●● highly recommended



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 CLASSIC





WACKER® GP GENERAL PURPOSE

This is a one-part, acetoxy silicone sealant for many applications. It cures at room temperature in the presence of atmospheric moisture to yield a permanently flexible silicone rubber.

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Acetoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	0.97 g/cm ³
Consistency	ISO 7390	Non-sag
Extrusion rate at 6 bar	Internal method	800 g/min.
Skin-forming time at 23 °C / 50% r.h.	Internal method	Approx. 25 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	18
Modulus at 100% (joint)	ISO 8339-A	0.36 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.50 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	150%
Modulus at 100% (S2 dumbbell)	ISO 37	0.29 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.22 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	520%



Applications

- Sealant for a variety of do-it-yourself applications
- Suitable for many general industrial sealing and bonding uses

Special Features

- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Rapid crosslinking: quickly becomes tack-free and crack-resistant
- Flexible at low (-40 °C) and high (+150 °C) temperatures after curing
- Excellent adhesion to glass, vitrified surfaces, ceramic tiles, many plastics and most paints

Colors

- Transparent
- White
- Black
- Gray
- Beige
- Bronze
- Champagne
- Brown
- Red
- Aluminum

Packaging

- 280 ml cartridge



WACKER® GP+ GENERAL PURPOSE ANTI-FUNGAL

This is a one-part, acetoxy silicone sealant particularly addressing applications where mildew resistance is essential.

Applications

- Sealant for a variety of do-it-yourself applications where mildew resistance is a must
- Specifically suitable for areas exposed to high humidity

Special Features

- Anti Fungal
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Rapid crosslinking: quickly becomes tackfree and crack-resistant
- Flexible at low (-50 °C) and high (+150 °C) temperatures after curing
- Excellent adhesion to glass, vitrified surfaces, ceramic tiles, many plastics and most paints

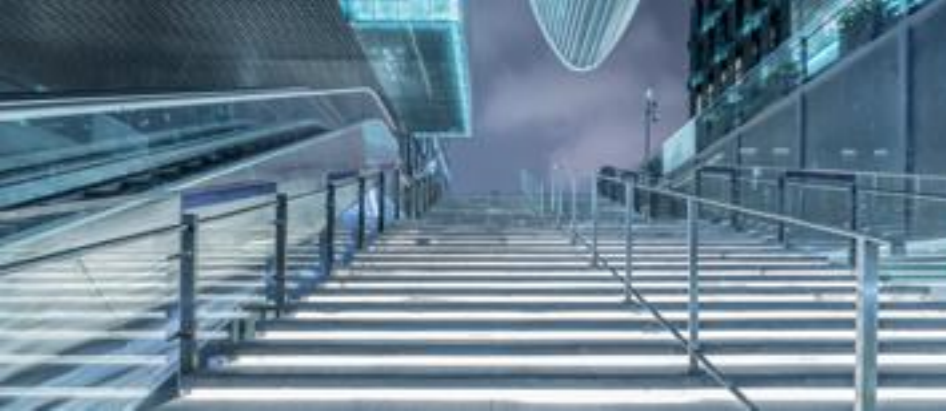
Colors

- Transparent
- White
- Black

Packaging

- 280 ml cartridge

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Acetoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	0.98 g/cm ³
Consistency	ISO 7390	Non-sag
Extrusion rate at 6 bar	Internal method	800 g/min.
Skin-forming time at 23 °C / 50% r.h.	Internal method	Approx. 20 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	18
Modulus at 100% (joint)	ISO 8339-A	0.35 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.60 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	200%
Modulus at 100% (S2 dumbbell)	ISO 37	0.30 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.30 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	500%



WACKER® GP-N GENERAL PURPOSE NEUTRAL

This is a one-part, neutral silicone sealant with outstanding adhesion to most building substrates. It further exhibits good weather resistance.

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Oxime
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.37 g/cm ³ (filled) 0.98 g/cm ³ (unfilled)
Consistency	ISO 7390	Non-sag
Extrusion rate at 6 bar	Internal method	390 g/min.
Skin-forming time at 23 °C / 50% r.h.	Internal method	Approx. 10–30 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	39
Modulus at 100% (joint)	ISO 8339-A	0.60 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.68 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	250%
Modulus at 100% (S2 dumbbell)	ISO 37	0.57 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.10 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	470%
Movement capability	ISO 9047	20%



Applications

- Sealant for internal connection and expansion joints

Special Features

- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Good tooling properties
- Excellent weatherability, adhesion and durability
- Non-corrosive to metals
- Flexible at low (-50 °C) and high (+150 °C) temperatures after curing
- Suitable for alkaline substrates such as concrete, mortar or fibrous cement

Colors

- Transparent
- White
- Black
- Gray
- Bronze
- Brown

Packaging

- 270 ml cartridge

Applications

- For crack repair
- For paintable joint sealing
- For joints around indoor plaster
- For joints exposed to low levels of movement

Colors

- White

Packaging

- 270 ml cartridge



WACKER® VS ACRYLIC SEALANT

WACKER® VS – Acrylic Sealant (VAE Acrylic Sealant) is a one-part, water-based VAE sealant suitable for internal cracks exposed to little or no movement. Once dried it can be painted if desirable.

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Acrylic
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.72 g/cm ³
Consistency	ISO 7390	Non-sag
Skin-forming time at 23 °C / 50% r.h.	Internal method	Approx. 30 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	35
Ultimate elongation (joint)	ISO 8339-A	5–100%

WACKER® GM GLAZING & METAL

Particularly suitable where acetoxycuring on substrates is undesirable, this one-part, neutral-curing sealant has been specially designed for low-stress connection and expansion joints in the building industry and for low-stress perimeter joints.

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Alkoxy
Uncured		
Consistency	ISO 7390, profile U 20	Non-sag
Extrusion rate - mass flow at 6 bar	Internal method	400 g/min.
Skin-forming time	Internal method	35 min.
Curing rate 23 °C / 50% r.h.		2.00 mm/d
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	24
Modulus at 100% elongation		0.37N/mm ²
Tensile strength	ISO 8339	0.50 N/mm ²
Elongation at break	ISO 8339	250%
Tear strength	ISO 34, method C	3.00 N/mm
Movement capability	ASTM C920	25%



Applications

- Sealing and bonding of glazing and/or metal applications where the substrates used cannot tolerate acetoxycuring

Special Features

- Excellent tooling characteristics for professional use
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Rapid crosslinking: quickly becomes tack-free and crack-resistant
- Flexible at low (-50 °C) and high (+150 °C) temperatures after curing

Colors

- Transparent
- White
- Black
- Brown

Packaging

- 300 ml cartridge
- 600 ml sausage

Applications

- Sealing joints between glazing and supporting structures (frames, transoms, mullions)
- Equally suitable for many general construction joints

Special Features

- Almost odorless
- Matte appearance
- Excellent tooling characteristics for professional use
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Solvent-free for low volume shrinkage during curing
- Flexible at low (-40 °C) and high (+150 °C) temperatures after curing
- Non-corrosive to metals
- Suitable for diverse substrates

Colors

- White
- Black
- Gray
- Anthracite
- Beige
- Ivory

Packaging

- 300 ml cartridge
- 600 ml sausage

WACKER® CS CONSTRUCTION SEAL

This is a neutral-curing sealant for sealing connection and expansion joints where the substrates will not tolerate acetoxycuring. It is equally suitable for joints typically found in the building sector.

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Alkoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.40 g/cm ³
Consistency	ISO 7390	Non-sag
Extrusion rate at 6 bar	Internal method	130 g/min.
Skin-forming time at 23 °C/50% r.h.	Internal method	Approx. 20 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	22
Modulus at 100% (joint)	ISO 8339-A	0.40 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.50 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	250%
Modulus at 100% (S2 dumbbell)	ISO 37	0.38 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.74 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	560%
Movement capability	ASTM C920	25%



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WACKER® 130 GLASS & GLAZING

This is a one-part, acetoxy, high-performance silicone sealant specially developed for glass and glazing applications, particularly addressing the window manufacturing industry.

Applications

- Sealing, bonding and repairing, specifically for glass construction applications

Special Features

- Excellent tooling characteristics for professional use
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Rapid crosslinking: quickly becomes tack-free and crack-resistant
- Flexible at low (-50 °C) and high (+150 °C) temperatures after curing

Colors

- Transparent
- White
- Black
- Gray

Packaging

- 310 ml cartridge

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Acetoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.01 g/cm ³
Consistency	ISO 7390, profile U 20	Non-sag
Extrusion rate - mass flow at 6 bar	Internal method	250–850 g/min.
Skin-forming time	Internal method	20 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	18
Modulus at 100% elongation (joint)	ISO 8339-A	0.38 N/mm ²
Tensile strength (joint)	ISO 8339	0.60 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	200%
Modulus at 100% elongation (S2 dumbbell)	ISO 37	0.35 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.80 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	550%
Movement capability	ASTM C920	25%



WACKER® WN WEATHERSEAL NEUTRAL

This is a one-part, neutral silicone sealant that exhibits good adhesion to exterior joints and displays outstanding weather resistance and durability. It is available either in a transparent version (unfilled) or in many commonly required colored versions (filled).

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Oxime
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.37g/cm ³ (filled) 1.00g/cm ³ (unfilled)
Consistency	ISO 7390	Non-sag
Extrusion rate at 6 bar	Internal method	220 g/min.
Skin-forming time at 23 °C / 50% r.h.	Internal method	Approx. 10 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	31
Modulus at 100% (joint)	ISO 8339-A	0.52 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.65 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	155%
Modulus at 100% (S2 dumbbell)	ISO 37	0.53 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.40 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	350%
Movement capability	ASTM C920	50%
Fire Resistance	ISO 13501-2	E/EI 180 (3h)



Applications

- Sealing of external and internal connection and expansion joints
- Suitable for cleanroom or curtain-wall joints, especially where alkaline substrates are found (e.g. concrete or mortar).
- Non-corrosive to metals
- Can be applied to joints between various substrates, e.g. glass – glass, glass – concrete, or aluminum – concrete, latter only with unfilled WACKER® WN.

Special Features

- Transparent available
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Good tooling properties
- Good weatherability
- Good adhesion
- Excellent durability
- Flexible at low (-50 °C) and high (+150 °C) temperatures after curing

Colors

- Transparent
- White
- Black
- Gray
- Dark Gray
- Anthracite
- Beige
- Bronze
- Champagne
- Brown
- Kaki

Packaging

- 300 ml cartridge
- 600 ml sausage



WACKER® 405 FAÇADE SEALANT

This is a neutral-curing sealant especially designed to seal connection and expansion joints in the building sector. It has been formulated to adhere to substrates typically found on construction sites.

Applications

- Sealing of joints between glazing and supporting structures (frames, transoms, mullions)
- Equally suitable for perimeter sealing where neutral curing is preferred

Special Features

- Almost odorless
- Matte appearance
- Excellent tooling characteristics for professional use
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Solvent-free for low volume shrinkage during curing
- Flexible at low (-40 °C) and high (+150 °C) temperatures after curing
- Non-corrosive to metals
- Suitable for diverse substrates

Colors

- White
- Black
- Gray

Packaging

- 310 ml cartridge
- 600 ml sausage

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Alkoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.40 g/cm ³
Consistency	ISO 7390	Non-sag
Extrusion rate at 6 bar	Internal method	300 g/min.
Skin-forming time at 23 °C/50% r.h.	Internal method	Approx. 20 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	22
Modulus at 100% (joint)	ISO 8339-A	0.40 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.50 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	250%
Modulus at 100% (S2 dumbbell)	ISO 37	0.38 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.74 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	560%
Movement capability	ASTM C920	50%

WACKER® 465 FAÇADE FIRE RETARDANT SEALANT

This is a one-part, neutral, high-performance silicone sealant for construction applications where fire retardancy is required.



Applications

- Sealing of connection and expansion joints in the construction industry
- Flame retardant sealing

Special Features

- Almost odorless
- Matte appearance
- Excellent tooling characteristics for professional use
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Solvent-free, thereby low volume shrinkage during curing
- Flexible at low (-40 °C) and high (+150 °C) temperatures after curing
- Non-corrosive to metals
- Suitable for alkaline substrates such as concrete, mortar or fibrous cement

Colors

- White
- Black
- Gray

Packaging

- 310 ml cartridge

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Alkoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.40 g/cm ³
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	22
Modulus at 100% elongation	ISO 8339-A	0.40 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.50 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	250%
Modulus at 100% (S2 dumbbell)	ISO 37	0.38 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.74 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	260%
Movement capability	ASTM C920	50%
Fire Resistance	ISO 13501-2	E/EI 240 (4h)





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SPECIALTY



WACKER® 120 FOOD CONTACT

This is a one-part, acetoxy, high-performance silicone sealant for sealing joints in food-contact applications.

Applications

- Sealing and bonding for food-contact applications

Special Features

- Solvent-free for low volume shrinkage during curing
- Excellent tooling characteristics for professional use
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Flexible at low (-40 °C) and high (+150 °C) temperatures after curing
- Suitable for food contact per US Food and Drug Administration Regulations 21 CFR 177.1210 and 177.2600
- Officially listed under NSF/ANSI Standard 51 – Food Equipment Materials
- Rapid crosslinking: quickly becomes tack-free and crack-resistant
- Excellent adhesion to glass, vitrified surfaces, ceramic tiles, many plastics and most paints.

Colors

- Transparent
- White S1

Packaging

- 310 ml cartridge

Product Properties

Typical General Characteristics	Inspection Method	Value
Cure type		Acetoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.02 g/cm ³
Consistency	ISO 7390, profile U 20	Non-sag
Extrusion rate - mass flow at 6 bar	Internal method	200–700 g/min.
Skin-forming time	Internal method	15 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	18
Modulus at 100% (joint)		0.40 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.50 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	250%
Modulus at 100% (S2 dumbbell)	ISO 37	0.35 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.20 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	450%
Movement capability	ISO 9047	25%



WACKER® 121 AQUARIUM

This is a one-part, acetoxy, high-performance silicone sealant especially designed for assembling aquariums.

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Acetoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.03 g/cm ³
Consistency	ISO 7390, profile U 20	Non-sag
Extrusion rate at 6 bar	Internal method	250 g/min.
Skin-forming time at 23 °C / 50% r.h.	Internal method	15 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	22
Modulus at 100% (joint)	ISO 8339-A	0.50 N/mm ²
Tensile strength (joint)	ISO 8339-A	0.70 N/mm ²
Ultimate elongation (joint)	ISO 8339-A	150%
Modulus at 100% (S2 dumbbell)	ISO 37	0.40 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37	1.60 N/mm ²
Ultimate elongation (S2 dumbbell)	ISO 37	550%
Movement capability	ISO 9047	25%



Applications

- Sealing of joints that are exposed to high mechanical loads and need to quickly build up mechanical strength
- Especially suitable for assembling aquariums that meet the requirements of DIN 32 622. Ensure bond thickness is at least 1 mm.
- For this specific application, the temperature should be between +15 °C and +40 °C.

Special Features

- Excellent tooling characteristics for professional use
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Rapid crosslinking: quickly becomes tack-free and crack-resistant
- Flexible at low (-40 °C) and high (+150 °C) temperatures after curing
- Low shrinkage on curing
- Special high-viscosity paste
- Excellent mechanical properties

Colors

- Transparent
- Black

Packaging

- 310 ml cartridge

Applications

- Specially developed for sealing natural substrates such as marble, granite, sandstone and quartzite
- Sealing of joints to interior and exterior walls, e.g. for sanitary applications where natural stone is the substrate

Special Features

- Almost odorless
- Solvent-free and thus features low volume shrinkage during curing
- Mold retardant
- Excellent tooling characteristics
- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Rapid crosslinking: quickly becomes tack-free and crack-resistant; high abrasion resistance
- Non-staining and non-bleeding: no plasticizer contamination of joint edges
- Non-corrosive to metals
- Flexible at low (-50 °C) and high (+150 °C) temperatures after curing
- Can be used on substrates such as marble, granite, sandstone and quartzite; no staining of joint edges. Suitable for alkaline substrates such as concrete, mortar and fibrous cement.

Colors

- Transparent • White • Black • Gray • Beige

Packaging

- 310 ml cartridge



WACKER® 460 NATURAL STONE

Equally suitable for additional indoor use or bathroom applications, this is a one-part, neutral, low-modulus silicone sealant for sealing natural substrates such as marble.

Product Properties		
Typical General Characteristics	Inspection Method	Value
Cure type		Acetoxy
Uncured / Unvulcanized Paste		
Density at 23 °C	ISO 1183-1 A	1.02 g/cm ³
Consistency	ISO 7390, profile U 20	Non-sag
Extrusion rate - mass flow at 6 bar	Internal method	400 g/min.
Skin-forming time	Internal method	Approx. 15 min.
Cured / Vulcanized Rubber		
Shore A hardness	ISO 868	21
Modulus at 100% elongation (joint)	ISO 8339	0.35 N/mm ²
Tensile strength (joint)		0.50 N/mm ²
Ultimate elongation (joint)		250%
Modulus at 100% (S2 dumbbell)	ISO 37	0.37 N/mm ²
Tensile strength (S2 dumbbell)	ISO 37 type 1	0.95 N/mm ²
Ultimate elongation (S2 dumbbell)		360%
Movement capability	ISO 9047	25%

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CONSTRUCTION
ADHESIVES



WACKER® HT
HIGH TACK

This is a one-component construction adhesive based on hybrid polymer. It cures according with air moisture reaction. It has a high adhesion effect that allows to hold the supports before its crosslinking, without clamping need by a strong initial pressure.

Applications

- Excellent adhesion e.g. bricks, concrete, stone, ceramic tiles, mirrors, stainless steel
- Elastic adhering of plates, profiles and other parts on nearly all construction materials
- Sealing connection joints on floors and walls
- Application in construction

Special Features

- Instant tack
- High adhesion up to 400 kg/m²
- Solvent free
- Interior/Exterior
- Paintable
- Odorless

Color

- White

Packaging

- 290 ml cartridge

Product Properties		
Typical General Characteristics	Inspection Method	Value
Elongation at break	ISO 37	250%
Extrusion rate - mass flow		50 – 100 g/min.
Shore A hardness	DIN 53 505/ISO 868	60
Skin-forming time	Internal method	4 – 20 min.
Tensile strength	ISO 37	2.00 N/mm ²

HOW TO FILL A JOINT PERFECTLY

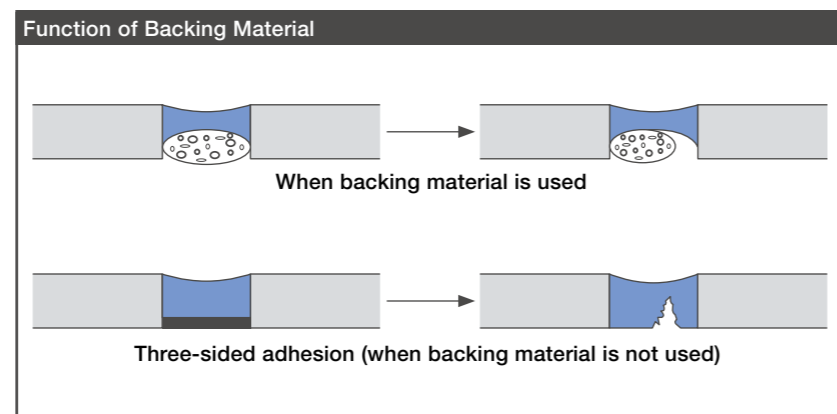
Use of Backing Material

Backing material, which is made of polyethylene foam, controls the depth of the joint and helps avoid three-sided adhesion. The size of the backing material should be bigger than the width of the joint, and we recommend bond breaker tape when round or rectangular backing material cannot be applied due to insufficient joint depth. We also recommend preparing the quantity of backing material needed for daily use and matching the joint depth to the design drawing specifications.

When applying structural silicone sealant, you may use a double-sided adhesive spacer in place of backing material in order to secure the auxiliary material until the silicone sealant has cured. In this case, the structural bite and glue line thickness should correspond to silicone sealant's calculation report.

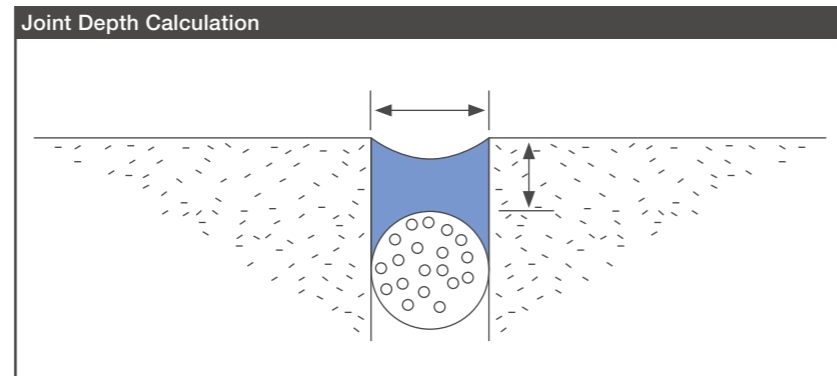
Function of Backing Material

- Controls the application depth and shape of silicone sealant
- Prevents cracking caused by three-sided adhesion
- Helps users apply silicone sealant flat when tooling
- Controls the amount of silicone sealant used



Determining Joint Depth

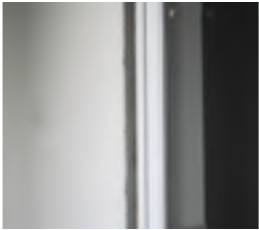
The ideal joint depth is 2/3 of the joint width (example: depth = 15 mm, width = 20 mm) and the joint depth should be between 6 mm and 20 mm.




Joint Depth Calculation

The depth of silicone sealant is normally calculated as $\frac{1}{2} < D/W < 1.0$ (D: depth, W: width)
 If $W \geq 15$ mm, $D = 1/2 \sim 2/3W$; $W < 15$ mm, $D = 2/3 \sim 1W$
 We recommend a depth of $D = 1/2 \sim 2/3W$ for concrete and $D = 1/2W$ for metal

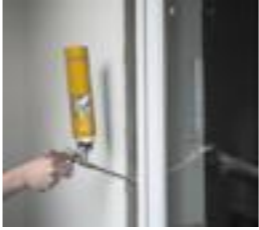
STANDARD CAULKING PROCEDURE

- 


Check Joint

 - Make sure the joint is designed correctly.
 - Make sure the width and depth of the joint have been correctly calculated.
- 


Clean and Dry Substrate

Remove dust, dirt, oil etc. and make sure that the surface is dry in order to prevent poor adhesion performance.
- 


Insert Backing Material

 - Use polyethylene or polyurethane foam for backing material.
 - Keep silicone sealant thickness consistent and use round or rectangular backing material.
 - Use a size somewhat bigger than the joint width and install it undamaged.
- 


Apply Masking Tape

Apply masking tape to prevent residue on the substrate surrounding the joint from contaminating silicone sealant.
- 


Spray Primer

Use and select a primer according to the recommendations of the silicone sealant manufacturer; this will improve adhesion when the adhesive power of silicone sealant alone is insufficient.
- 

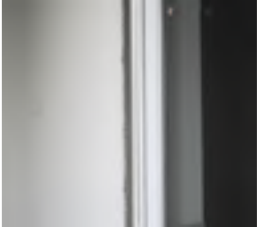
Apply Silicone Sealant

First cut the nozzle to match the width of the joint, insert the nozzle into the bottom of the joint and apply.
- 

Tooling

Before curing begins, use a spatula to eliminate internal bubbles, pressing the surface until the silicone sealant fills the entire joint.
- 

Remove Masking Tape

Remove the masking tape after finishing the surface.
- 

Finish

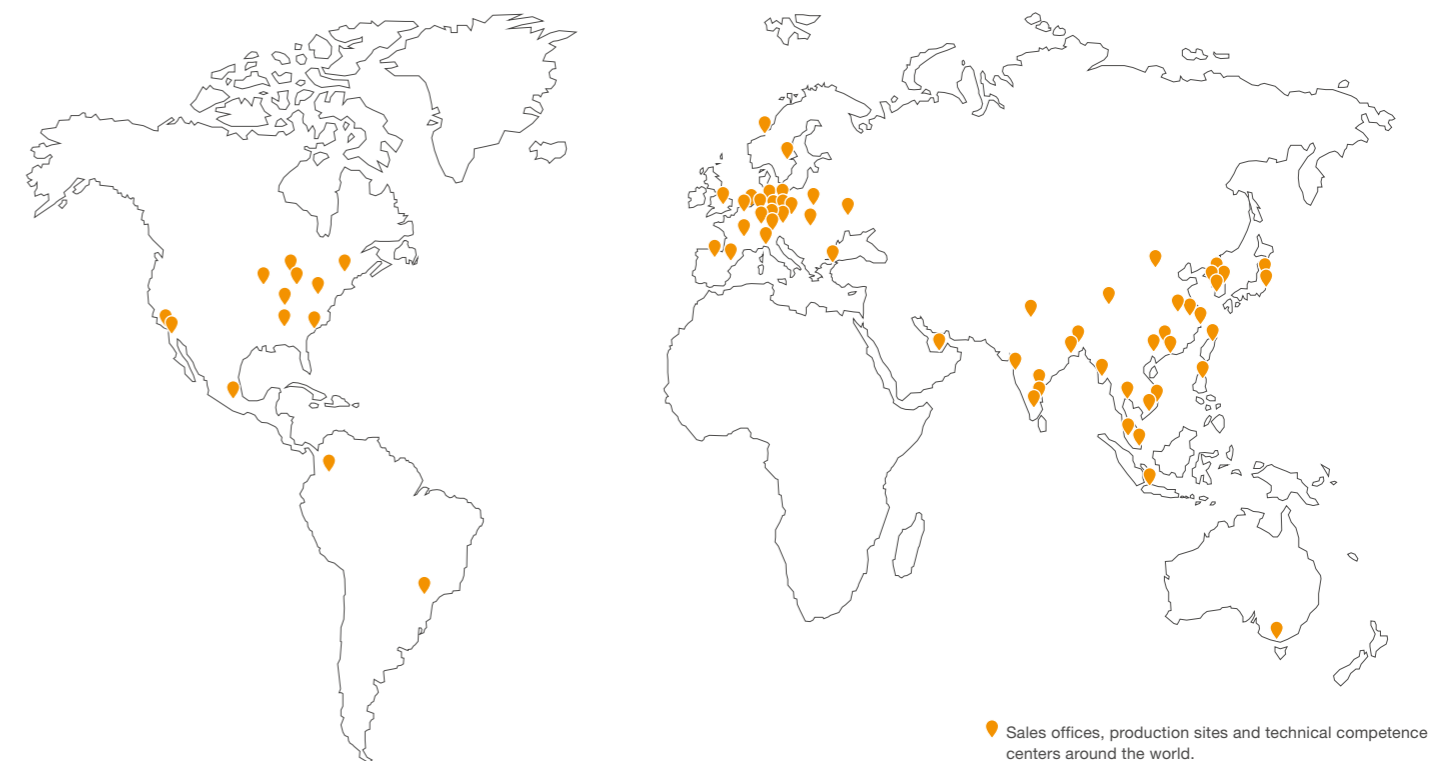
Trim silicone sealant around the substrate.
- 10. Curing**

Do not touch the sealed area; prevent contamination and movement for at least 48 hours.

USAGE BY JOINT SIZE

Criteria		Required Sealant Volume and Work Length Covered in Meters				
Width [mm]	Depth [mm]	Required Volume [ml] per meter	Length Covered [m] with 10 ml	Length Covered [m] with 280 ml	Length Covered [m] with 300 ml	Length Covered [m] with 600 ml
5	5	25	0.4	11.2	12	24
5	8	40	0.25	7	7.5	15
8	8	64	0.16	4.48	4.8	9.6
10	5	50	0.2	5.6	6	12
10	8	80	0.125	3.5	3.75	7.5
10	10	100	0.1	2.8	3	6
12	5	60	0.17	4.76	5.1	10.2
12	8	96	0.104	2.912	3.12	6.24
12	10	120	0.08	2.24	2.4	4.8
12	12	144	0.07	1.96	2.1	4.2
15	5	75	0.13	3.64	3.9	7.8
15	8	120	0.08	2.24	2.4	4.8
15	10	150	0.066	1.848	1.98	3.96
15	12	180	0.055	1.54	1.65	3.3
15	15	225	0.044	1.232	1.32	2.64
18	5	90	0.11	3.08	3.3	6.6
18	8	144	0.069	1.932	2.07	4.14
18	10	180	0.055	1.54	1.65	3.3
18	12	216	0.047	1.316	1.41	2.82
18	15	270	0.037	1.036	1.11	2.22
18	18	324	0.03	0.84	0.9	1.8
20	5	100	0.1	2.8	3	6
20	8	160	0.062	1.736	1.86	3.72
20	10	200	0.05	1.4	1.5	3
20	15	300	0.033	0.924	0.99	1.98
20	18	360	0.028	0.784	0.84	1.68
20	20	400	0.025	0.7	0.75	1.5

EXPERTISE AND SERVICE NETWORK ON FIVE CONTINENTS



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1026en/10.24 replaces 7302e/1.23

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