

**WACKER**

CREATING TOMORROW'S SOLUTIONS



# EXPERT SEALANT TECHNOLOGY



ADHESIVES & SEALANTS | SILICONE SEALANTS | MEA

## EASY SEALING WITH WACKER® SILICONE SEALANTS

# HIGH-PERFORMANCE SILICONE SEALANTS FOR EXCELLENT RESULTS





A silicone sealant always finds use 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. Therefore, they are ideally suited for walls and floors of buildings or washbasins and bath tubs 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:  
[www.wacker.com/sealants](http://www.wacker.com/sealants)



## GENERAL PURPOSE, SANITARY AND NATURAL STONE

WACKER's general-purpose silicone sealants are designed for sealing, refurbishment, repairing, bonding and gap filling in a variety of building and industrial applications.



### 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 give a permanently flexible silicone rubber.

#### 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
- Adheres excellently to glass, vitrified surfaces, ceramic tiles, many plastics and most paints

#### Colors

- Transparent
- White S1
- Gray S1
- Gray S4
- Gray 81
- Black S1
- Brown S1
- Beige S1
- Beige 31
- Beige 41
- Bronze 04



### WACKER® GS – General Sanitary

This is a one-part, acetoxysilicone sealant particularly addressing applications where mildew resistance is essential. It especially targets sanitary applications.

#### Applications

- Sealant for a variety of Do-It-Yourself applications where mildew resistance is a must
- Specifically suitable for areas exposed to high humidity

#### Colors

- Transparent
- White S1F

#### Special Features

- Mold retardant
- 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
- Adheres excellently to glass, vitrified surfaces, ceramic tiles, many plastics and most paints



### WACKER® SN – Sanitary Neutral

This is a one-part, neutral silicone sealant with good adhesion. Its mildew and fungus resistance makes it particularly suitable for sanitary applications, where substrates to be sealed cannot tolerate acidic by-products

#### Applications

- Joints in sanitary fittings, e.g. between floor or wall and shower or wash basin
- Particularly developed for areas exposed to high humidity

#### Colors

- Transparent
- White
- Ivory

#### Special Features

- Readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- Good tooling properties
- Mildew resistant
- Excellent elongation, weatherability and durability
- Flexible at low (-50 °C) and high (+150 °C) temperatures after curing
- Suitable for metal substrates in sanitary areas



### WACKER® GP-N – General Purpose Neutral (Filled/Unfilled)

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

#### Applications

- Sealant for internal connection and expansion joints

#### Colors

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

#### 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



### WACKER® PS – Paintable Acrylic Sealant

This is a one-part, water-based, acrylic sealant suitable for internal and external crack filling, exposed to little or no movement, as well as building repair. Once dried, it can be painted if desirable.

#### Applications

- Crack repair
- Joint sealing
- Joints around indoor plaster
- Joints exposed to little movement

#### Special Features

- Almost odorless
- Excellent tooling properties
- Paintable

#### Colors, Filled

- White



### WACKER® 460 – Natural Stone

This is a one-part, neutral, low-modulus silicone sealant for sealing natural substrates such as marble, which is equally suitable for additional indoor use or sanitary applications.

#### 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

- Gray 20
- Black S1
- Beige 41

#### Standards

ASTM C 920	Class 25
ISO 11600-G	Class 25 LM
ISO 11600-F	Class 25 LM
DIN 18545-2	Group E
ISO 16938-1	











# GLAZING, WINDOWS AND DOORS

WACKER's silicone sealants in glazing, window and door applications are compatible with a variety of materials where the seal must withstand movement and extreme weather conditions. They give you reliable quality for perfect sealing.



## WACKER® 130 – Glass & Glazing

This is a one-part, acetoxo, high-performance silicone sealant especially developed for glass and glazing applications, particularly addressing the window fabricator 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
- Black S1

### Standards

ISO 11600 Class 25 LM  
Conforms to EC1-Plus



## WACKER® GM – Glazing & Metal

This is a one-part neutral cure sealant. It has been especially designed for low stress connection and expansion joints in the building industry and for low stress perimeter joints, particularly suitable where acetoxo cure on substrates is undesirable

### Applications

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

### 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
- Black S1
- White S1



## WEATHERSEAL AND FIRE RETARDANCY

WACKER's silicone weatherseal products must withstand weather and atmospheric conditions without degradation, as well as efficacy in sealing out air and water from residential and/or commercial buildings.

With the stringent fire retard regulations now prevailing in countries of the Middle East, WACKER has responded with solutions to meet such revised standards. Both concepts ensure long-term sustainability as well as keeping maintenance costs to a minimum.



### WACKER® WS – Weatherseal Superior

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

#### Applications

- Sealing of external and internal connection and expansion joints where a non-staining material is a must
- Suitable for stone and ceramic joints, as well as aluminum curtain-wall and panel joints

#### Special Features

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

#### Colors

- White
- Gray
- Black
- Bronze





### WACKER® WN – Weatherseal Neutral (Filled/Unfilled)

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

#### 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.

#### Colors, Filled

- White
- Gray
- Black
- Bronze

#### Colors, Unfilled

- Transparent

#### 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

#### Standards

ISO 11600	Class 25 HM
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### WACKER® 465 – Fire Retardant

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

#### Colors

- Gray S2
- Black 09

#### Special Features

- Almost odorless
- Matt 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

#### Standards

ASTM C 920	Class 25
ISO 11600-F	Class 25 LM
DIN 4102-1(B-1)/ BS 476-22	
ISO 11600	Class 25 LM



## PERIMETER SEALING

Today's high-rise construction often involves internal and external joints that require sealing against water and moisture intake. Following window installation, for example, a sealant for the perimeter joints will give the necessary professional finish. The sealant must display movement capability as well as durability.



### WACKER® 405 – Façade Sealant

This is a neutral cure sealant especially designed to seal connection and expansion joints in the building sector. Formulated to adhere to substrates typically found on the construction site.

#### Applications

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

#### Special Features

- Almost odorless
- Matt 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 diverse substrates

#### Colors

- White S10
- Ivory 09
- Gray S1
- Black 08

#### Standards

ISO 11600-F	Class 25 LM
SNJF Vitrages	Class 25E
SNJF Façade	Class 25E
Conforms to EC1 - Plus	





### WACKER® 440 – Glazing & Perimeter Sealant

This is a neutral cure sealant especially designed for perimeter sealing where UV exposure is an issue and for glazing applications where the sealant must adhere both to the glass and to the frame.

#### Applications

- Internal & external connection and/or expansion joints
- Fenestration
- Perimeter sealing where neutral cure is favored

#### Special Features

- Almost odorless
- Gloss 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 diverse substrates

#### Colors

- Transparent
- White S1
- Gray S1
- Black S1
- Brown 36
- Brown 70
- Aluminium

#### Standards

ISO 11600 Class 25 LM  
Conforms to EC1 - Plus



### WACKER® HS – Hybrid Sealant

This is a high-modulus sealant suitable for perimeter sealing where paintability is desirable. It will adhere to many typical construction substrates.

#### Applications

- Connection joints that are subsequently painted
- Fixation where flexibility of the sealant is still required
- Sealing joints between a wide variety of materials, such as wood, glass, metals, plastics and mineral-based substrates
- Stress-relieving bonding and fixation

#### Colors

- White
- Gray
- Black

#### Special Features

- Almost odorless
- Solvent-, isocyanate- and phthalate-free
- Easy to process at temperatures from -5 °C to +40 °C
- Stable at temperatures from -40 °C to +80 °C
- Tack-free and highly elastic after curing
- Non-corrosive
- Paintable



### WACKER® CS – Construction Seal

This is a neutral cure sealant targeting the sealing of connection and expansion joints where the substrates will not tolerate acetoxycure. It is equally suitable for joints typically found in the building sector.

#### Applications

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

#### Colors

- White S10
- Ivory 09
- Gray S1
- Black 08

#### Special Features

- Almost odorless
- Matt 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 diverse substrates





# FOOD AND HIGH TEMPERATURE

In kitchens, joints around countertops are sealed to ensure optimum hygiene. The sealants used here must meet food-contact standards. Cooker hobs fitted into a countertop will require the sealant to withstand high temperatures. Commercial kitchens with industrial ovens require a sealant that tolerates extreme temperatures.



## WACKER® 120 – Food Contact

This is a one-part, acetoxysilicone sealant for the sealing of joints in food-contact applications.

### Applications

- Sealing and bonding for food-contact applications

### Special Features

- Solvent-free and thus features 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
- Adheres excellently to glass, vitrified surfaces, ceramic tiles, many plastics and most paints.

### Colors

- Transparent
- White S1

### Standards

ASTM C 920	Class 25
ISO 11600-G	Class 25 LM
DIN 18545-2	Group E
NFS Approved	



## WACKER® 180 – High Temperature

This is a one-part, acetoxysilicone sealant specifically for applications that must withstand temperatures of up to 250 °C.

### Applications

- Sealing of connection and expansion joints exposed to high temperatures
- Sealing of joints exposed to constant temperatures of 250 °C (e.g. industrial ovens and chimney construction)

### Special Features

- 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
- Acetoxysilicone cure
- Rapid crosslinking: quickly becomes tack-free and crack-resistant
- Adheres excellently to glass, vitrified surfaces, ceramic tiles, many plastics and most paints
- Maintains elastic properties at continuous temperatures of up to 250 °C
- Short-term resistance up to 275 °C

### Colors

- Red 01



## ASSEMBLY ADHESIVES

As construction completion work sees mechanical fasteners replaced with adhesives, such adhesives must naturally withstand both mechanical forces as well as adhering to the variety of substrates used. WACKER's hybrid adhesive is specifically designed to bond dissimilar materials yet must be environmentally and user friendly. In the case of aquariums, silicone sealants continue to be the product of choice to assemble these. Our aquarium grade has been especially designed to ensure compliance and fulfilment of stringent industry standards.



### WACKER® 121 – Aquarium

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

#### Applications

- Sealing of joints that are exposed to high mechanical loads and need to quickly build up mechanical strength
- Especially suitable for the assembly of 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.

#### Colors

- Transparent
- Black S1

#### 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

#### Standards

ASTM C 920	Class 25
ISO 11600-G	Class 20 HM
DIN 32622	



### WACKER® HA – Hybrid Adhesive

This is a high-strength, all-purpose adhesive suitable for bonding and repairing many different substrates.

#### Applications

- Bonding of a wide variety of materials, such as wood, glass, metals, plastics and mineral-based substrates
- Equally suitable for decorative frames, skirting boards, cable ducts, curtain walls and insulation panels in the construction industry
- Repair bonding in do-it-yourself and trade sectors
- Bonds that require painting and need to be sanded

#### Colors

- White

#### Special Features

- Almost odorless
- Solvent-, isocyanate-, plasticizer- and tin-free
- Easy to process at temperatures from -5 °C to +50 °C
- Stable at temperatures from -40 °C to +80 °C
- Fast build-up of strength; very strong and tack-free after curing - even under water
- Excellent adhesion to many surfaces without a primer and on wet surfaces
- Non-corrosive and non-staining
- Paintable
- Weatherable and highly resistant to media such as mineral oils, solvents, acids and alkalines
- Silicone free technology



# EXPERTISE AND SERVICE NETWORK ON FIVE CONTINENTS



• Sales offices and production sites, plus 22 technical centers, ensure you a local presence worldwide.

WACKER is one of the world's leading and most research-intensive chemical companies, with total sales of €5.3 billion. Products range from silicones, binders and polymer additives for diverse industrial sectors to bioengineered pharmaceutical actives and hyperpure silicon for semiconductor and solar applications. As a technology leader focusing on sustainability, WACKER promotes products and ideas that offer a high value-added potential to ensure that current and future generations enjoy a better quality of life based on

energy efficiency and protection of the climate and environment. Spanning the globe with 5 business divisions, we offer our customers highly-specialized products and comprehensive service via 25 production sites, 22 technical competence centers, 12 WACKER ACADEMY training centers and 50 sales offices in Europe, North and South America, and Asia – including a presence in China. With a workforce of some 17,000, we see ourselves as a reliable innovation partner that develops trailblazing solutions for,



and in collaboration with, our customers. We also help them boost their own success. Our technical centers employ local specialists who assist customers worldwide in the development of products tailored to regional demands, supporting them during every stage of their complex production processes, if required. WACKER e-solutions are online services provided via our customer portal and as integrated process solutions. Our customers and business partners thus benefit from comprehensive information and

reliable service to enable projects and orders to be handled fast, reliably and highly efficiently.

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All figures are based on fiscal 2015.



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