

WACKER

CREATING TOMORROW'S SOLUTIONS



EXPERT SEALANT TECHNOLOGY



ADHESIVES & SEALANTS | SILICONE SEALANTS | TURKEY

WACKER – SEALANTS & ADHESIVES FOR PROFESSIONAL USE

FROM SILICONE SEALANTS TO HYBRID ADHESIVES

Wacker has been producing sealants and adhesives for the construction sector for many decades. Wacker looks to supply quality products that assist in giving a building longevity and guarantee industry standard life spans.



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For more information on
WACKER® SILICONE SEALANTS,
please visit:
www.wacker.com/sealants

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GENERAL PURPOSE & SANITARY APPLICATIONS



WACKER® GP – GENERAL PURPOSE

cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.

Applications

- Sealant for a variety of DIY applications at home and in selective industrial areas
- Suitable for many general industrial sealing and bonding uses, especially when exposed to high humidity

Benefits

- 1K acetox cure system: Cures in the presence of moisture
- Good adhesion to most non-porous siliceous materials (glass, tiles, ceramics, enamel, glazed tiles); to selected metals (aluminum, steel, zinc, copper); impregnated woods and selected plastics

Colors

- Trans, white, beige, brown, black

Packaging

- 280 ml cartridge

Properties Cured	Value	Method
Hardness Shore A	18	ISO 868
Tensile strength	1.2 N/mm ²	ISO 37
Elongation at break	500 %	ISO 37
Modulus at 100 % elongation	0.3 N/mm ²	ISO 37
Movement capability	12.5 %	ISO 11600
Tear strength	4.0 N/mm	ISO 34, method C

These figures are only intended as a guide and should not be used in preparing specifications.



WACKER® GP-N – GENERAL PURPOSE NEUTRAL

is a one-part, neutral cure silicone sealant for substrates that do not tolerate acetox cure. It exhibits outstanding adhesion to many substrates typically found in the construction sector as well as good weather resistance and workability for glazing applications.

Application

- Sealant for internal connection and expansion joints

Benefits

- 1K neutral cure system: Cures in the presence of moisture
- Excellent weatherability, adhesion and durability.
- Non-corrosive to metals
- Suitable for alkaline substrates such a concrete, mortar or fibrous cement

Colors

- White, grey, black

Packaging

- 270 ml cartridge
- 600 ml sausage

Properties Cured	Value	Method
Modulus at 100 % elongation	0.6 N/mm ²	ISO 8339
Hardness Shore A	39	ISO 868
Tensile strength (joint)	0.69 N/mm ²	-
Ultimate elongation (joint)	250 %	-

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WACKER® GS – GENERAL SANITARY

is a one-part, acetox silicone sealant for general purpose sealing where mildew resist is essential. This grade is therefore suitable in sanitary applications where such sealants are exposed to moisture and soap residues – optimum conditions for undesirable mildew formation.

Applications

- Sealant for a variety of DIY applications where mildew resistance is imperative
- Suitable for many general industrial sealing and bonding uses, especially when exposed to high humidity

Benefits

- 1K acetox cure system: Cures in the presence of moisture
- Good adhesion to most non-porous siliceous materials (glass, tiles, ceramics, enamel, glazed tiles); to selected metals (aluminum, steel, zinc, copper); impregnated woods and selected plastics.
- Mold retardant
- Adheres well to glass, vitrified surfaces, ceramic tiles and many plastic substrates

Colors

- Trans, white, beige, brown, black

Packaging

- 280 ml cartridge

Properties Cured	Value	Method
Movement capability	12.5 %	ISO 11600
Modulus at 100 % elongation	0.30 N/mm ²	ISO 37
Elongation at break	500 %	ISO 37
Hardness Shore A	18	ISO 868
Tear strength	4.0 N/mm	ISO 34, method C
Tensile strength (S2-dumbbell)	1.2 N/mm ²	ISO 37

These figures are only intended as a guide and should not be used in preparing specifications.



WACKER® 405 FAÇADE

is a one-component neutral cure sealant especially designed to seal connection and expansion joints in the building sector. Adheres well to typical substrates found on the construction site and meets a number of required industry standards.

Applications

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

Benefits

- 1K neutral cure
- Suitable for diverse substrates
- Non-corrosive to metals
- Matt appearance
- Suitable for applications where standard fulfilment required

Standards

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

Colors

- Black, beige, grey, white, red

Packaging

- 300 ml cartridge
- 600 ml foil pack

Properties Cured	Value	Method
Movement capability	50 %	ASTM C920
Movement capability	25 %	ISO 11600
Modulus at 100 % elongation	0.4 N/mm ²	ISO 8339
Elongation at break	250 %	ISO 8339
Hardness Shore A	22	ISO 868
Tensile strength	0.50 N/mm ²	ISO 8339

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CONSTRUCTION & FAÇADE SEAL APPLICATIONS



WACKER® CS – CONSTRUCTION SEAL

is a one-component neutral cure sealant particularly suitable for exterior joints exposed to all weathers.

Application

- Sealing of exterior joints exposed to extreme weathers

Benefits

- 1K neutral cure
- Moisture cure
- Non-corrosive to metals
- Outstanding UV resist
- Low odor
- Movement capability 25 %
- Durable adhesion to typical construction substrates such as concrete, metals, non-porous surfaces
- Suitable for those substrates that do not tolerate acetoxo cure (e.g. steel, zinc, copper)

Colors

- Ivory, grey, black

Packaging

- 300 ml cartridge
- 600 ml foil pack

Properties Cured	Value	Method
Movement capability	25 %	ISO 9047
Modulus at 100 % elongation	0.40 N/mm ²	ISO 8339
Elongation at break	250 %	ISO 8339
Hardness Shore A	22	ISO 868
Tensile strength	0.50 N/mm ²	ISO 8339

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WACKER® GM – GLAZING & METAL

is a one-part neutral cure sealant, especially to address low stress connection and expansion joints in the construction sector as well as low stress perimeter joints where neutral cure is favoured over acetoxo cure.

Application

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

Benefits

- 1K neutral cure
- Non-corrosive to metals
- Suitable for glazing and metal

Colors

- Trans, black, white

Packaging

- 300 ml cartridge

Properties Cured	Value	Method
Movement capability	20 %	ISO 11600
Modulus at 100 % elongation	0.37 N/mm ²	-
Elongation at break	250 %	ISO 8339
Hardness Shore A	24	ISO 868
Tear strength	3.0 N/mm	ISO 34, method C
Tensile strength	0.50 N/mm ²	ISO 8339

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GLAZING APPLICATIONS



WACKER® 440 GLAZING & PERIMETER

is a one-component, neutral-curing, fire retardant, low modulus silicone sealant with outstanding adhesion, long shelf life and excellent tooling characteristics for construction, glass and window installation. This grade has been especially tested to meet industry standards.

Applications

- Sealing of interior and exterior connection and/or expansion joints.
- Equally suitable for fenestration and perimeter sealing where neutral cure is preferred.

Benefits

- 1K neutral cure
- Non-corrosive to metals
- Suitable for diverse substrates

Standards

- ISO 11600 Class 25LM
- Conforms to EC1-Plus

Colors

- Trans, aluminium, light brown, dark brown

Packaging

- 310 ml cartridge

Properties Cured	Value	Method
Movement capability	25 %	ISO 11600
Movement capability	50 %	ISO 9047
Modulus at 100 % elongation	0.37 N/mm ²	ISO 8339
Elongation at break	> 300 %	ISO 8339
Hardness Shore A	24	ISO 868
Tear strength	4.5 N/mm ²	ISO 34, method C
Tensile strength	0.70 N/mm ²	ISO 8339

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BONDING & ASSEMBLY



WACKER® 121 AQUARIUM

is a one-component, acetic cure silicone sealant especially developed for industrial applications as well as assembly of aquarium units. The selection of the raw materials is decisive so as not to harm the aquatic life in such an aquarium; strict adherence to the DIN 32 622 is imperative.

Applications

- Especially suitable for the assembly of an aquarium meeting the requirements of DIN 32 622. Ensure the bond thickness is at least 1 mm.
- Temperature for this specific application must be between +15 °C and +40 °C

Benefits

- 1K cure
- Low shrinkage upon cure
- Excellent mechanical properties
- High viscosity paste-like sealant

Standards

- ASTM C920 Class 25
- ISO 11600-G Class 20HM
- DIN 32 622

Colors

- Transparent, black

Packaging

- 310 ml cartridge

Properties Cured	Value	Method
Movement capability	25.0 %	ISO 9047
Modulus at 100 % elongation (joint)	0.50 N/mm ²	ISO 8339-A
Curing time	3.0 mm/d	-
Hardness Shore A	22	ISO 868
Tensile strength (joint)	0.70 N/mm ²	ISO 8339
Tensile strength (S2-dumbbell)	1.6 N/mm ²	ISO 37
Ultimate elongation (S2-dumbbell)	500 %	ISO 8339-A
Ultimate elongation (joint)	150 %	ISO 8339-A

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WACKER® HS – HYBRID SEALANT

is a one-component, high modulus so-called hybrid sealant suitable for sealing jobs where paintability of the cured sealant is desirable. It will adhere to many typical construction substrates such as found in e.g. perimeter sealing.

Applications

- Connection joints that are subsequently painted.
- Fixation where flexibility is required.
- Sealing joints where bonding between dissimilar materials requires the use of hybrid technology.
- Stress relieving bonding and fixation.

Benefits

- 1K cure
- Swift tack-free cure
- Non-corrosive
- Virtually odorless
- Paintable
- Solvent, isocyanate, phthalate free
- Stable at wide temperature range, from –40 °C to +80 °C

Colors

- White, gray, black

Packaging

- 300 ml cartridge
- 600 ml foil pack

Properties Cured	Method	Unit	Method
Tensile strength	ISO 37 – rod 1	N/mm²	1.7
Elongation at break	ISO 37 – rod 1	%	350
100 % Modulus	ISO 37 – rod 1	N/mm²	1.1
Hardness Shore A	ISO 868	-	50
Tear strength	ISO 34 – C	N/mm	9

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WACKER® HA – HYBRID ADHESIVE

is a one-component so-called hybrid adhesive suitable for a variety of bonding or adhering jobs in and around the construction site. It exhibits good adhesion profile to a wide range of typical construction substrates.

Applications

- For bonding many dissimilar materials such as wood, glass, metals and plastics as well as mineral-based substrates.
- Equally suitable for the fixation of skirting boards, cable ducts and construction panels, especially where these need to be subsequently painted.

Benefits

- 1K cure
- Swift tack-free cure
- Fast strength build up
- Very strong and tack-free after cure, even under water
- Non-corrosive and non-staining
- Virtually odorless

- Paintable
- Solvent, isocyanate, phthalate free
- Stable at wide temperature range, from –40 °C to +80 °C
- Highly resistant to media such as mineral oils, solvents, acids and alkalines
- Silicone free technology

Colors

- White

Packaging

- 300 ml cartridge
- 600 ml foil pack

Properties Cured	Method	Unit	Method
Tensile strength	ISO 37 – rod 1	N/mm²	2.9
Elongation at break	ISO 37 – rod 1	%	200
100 % Modulus	ISO 37 – rod 1	N/mm²	2.4
Hardness Shore A	ISO 868	-	70
Tear strength	ISO 34 – C	N/mm	14

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