PRODUCT / ACETOXY SILICONE

EX230 Fast-Cure Acetoxy Silicone Sealant

Fast-cure acetoxy silicone for granite countertops, undermount sinks, aquarium glass and compatible bonding/sealing assemblies.

CURE FAMILY	APPLICATION FOCUS
Acetoxy cure	**Granite countertops, undermount sinks, aquarium glass and compatible bonding assemblies**
LOAD ROLE	**CURE NOTICE**
Bonding and sealing as designed	**Ventilation required during cure**



EX230 Fast-Cure Acetoxy Silicone Sealant

Product description

EX230 is a fast-cure acetoxy silicone sealant for granite countertop installation, undermount sink bonding and sealing, aquarium glass sealing and bonding, compatible glass, glazed ceramic and selected non-porous details. It provides durable bonding and watertight sealing for correctly designed joints and assemblies.

Key benefits

Countertop-ready bead control
Supports consistent bead placement and tooling around granite countertops and undermount sink interfaces.

Countertop bonding and watertight sealing
Matches the bonding and sealing step used by countertop fabricators and installers.

Mineral-oil-free formulation
Supports selection for confirmed granite countertop applications where migration and staining control matter.

Fast tack-free result
Allows prompt tooling and handling, helping speed up everyday sealing work.

Recommended applications

Granite countertop installation
Confirmed granite countertop surfaces and compatible countertop details

Undermount sink bonding and sealing
Confirmed granite countertop underside to stainless-steel sink rim

Aquarium and glass-to-glass sealing
Clean float glass to float glass

General glazing
Float glass to compatible anodized aluminum

Selection boundary

Granite countertop work, compatible undermount sink bonding, aquarium glass sealing and bonding, and other compatible bonding assemblies are supported application routes. For marble, limestone, travertine or other natural stone, test the actual material and finish before use. Select the joint geometry, load role and cure conditions for the intended assembly.

Applications, benefits and substrate suitability

Intended uses

JOINT / LOCATION	SUBSTRATE COMBINATION	EXPOSURE / MOVEMENT	LOAD ROLE	CONTROLLED STATEMENT
Granite countertop installation	Confirmed granite countertop surfaces and compatible countertop details	Bonding and watertight sealing for countertop installation; test other natural stone on the actual material and finish before use.	Designed joint / load role	Confirm the actual granite finish, cleaning process, joint geometry and adjacent materials before production use.
Undermount sink bonding and sealing	Confirmed granite countertop underside to stainless-steel sink rim	Provides bonding and watertight sealing within the approved mounting system.	Designed joint / load role	Confirm the actual sink grade and finish, continuous bead geometry, cure protection and required clips, brackets or other mechanical support.
Aquarium and glass-to-glass sealing	Clean float glass to float glass	Suitable for aquarium glass sealing and bonding and other compatible glass assemblies with correctly designed joints.	Designed joint / load role	Confirm glass treatment, cleaner and actual joint design.
General glazing	Float glass to compatible anodized aluminum	Bonding and sealing for compatible glazing assemblies with correctly designed joints.	Designed joint / load role	Adhesion and compatibility testing required on the actual finish.
Glazed ceramic details	Glazed ceramic and selected porcelain surfaces	Clean, dry, stable non-porous surfaces.	Designed joint / load role	Remove soap, grease and processing residue; test before use.
General non-porous sealing	Selected coated metal and rigid non-porous details	Only where the complete material combination is compatible.	Designed joint / load role	Compatibility testing required; stress-cracking risk applies to plastics.

Features and benefits

FEATURE	PERFORMANCE STATEMENT	PRACTICAL VALUE	CONDITIONS / LIMITS
Countertop-ready bead control	Thick-bodied, uniform, fine non-sag paste for a full, controlled bead in confirmed countertop applications.	Supports consistent bead placement and tooling around granite countertops and undermount sink interfaces.	Bead size, substrate finish, support method and cure conditions affect the final bonded assembly.
Countertop bonding and watertight sealing	Confirmed for granite countertop and stainless-steel undermount sink bonding and watertight sealing within the approved mounting system.	Matches the bonding and sealing step used by countertop fabricators and installers.	Mechanical support requirements follow the sink, countertop and mounting-system manufacturer's instructions.
Mineral-oil-free formulation	The confirmed formulation does not use mineral oil or white oil.	Supports selection for confirmed granite countertop applications where migration and staining control matter.	This is not a universal non-staining natural-stone certification; confirm the actual stone, finish and application.
Fast tack-free result	Approximately 6 minutes tack-free time under the stated test method.	Allows prompt tooling and handling, helping speed up everyday sealing work.	Full cure depends on temperature, humidity, sealant depth and air circulation.
Non-sag behavior	0 mm vertical sag with no deformation on a level specimen under the stated test method.	Supports clean, controlled bead placement in vertical and routine sealing applications.	Application temperature, bead size and joint orientation can affect sag performance.
Cured mechanical profile	Cures to a flexible seal with 15 Shore A hardness, 200% elongation at break and 0.65 MPa tensile strength.	Provides a flexible cured profile for bonding and sealing assemblies.	Assess joint performance together with movement capability, joint design and adhesion to the actual substrate.

Technical properties

PROPERTY	RESULT	VALUE TYPE	METHOD / BASIS	CONDITION / BOUNDARY
Appearance	`Uniform, fine paste`	visual assessment	Visual inspection	Visual appearance
Density	`0.96 g/cm3`	measured result	Density meter	Measured value
Vertical sag	`0 mm`	measured result	GB/T 13477	Tested under the stated method
Extrudability	`Approx. 850 mL/min`	Typical value	Product performance assessment	Typical product value
Mineral oil / white oil	`Not used`	Product value	Product formulation confirmation	Confirmed product-positioning claim for selected granite countertop applications
Tack-free time	`0.10 h (approx. 6 min)`	measured result	Stopwatch; GB/T 13477	Surface tack-free result
Shore A hardness	`15 Shore A`	measured result	GB/T 531-92	Cured sample
Elongation at break	`200 %`	measured result	Electronic tensile tester; GB/T 13477	Cured specimen
Tensile strength	`0.65 MPa`	measured result	Electronic tensile tester; GB/T 13477	Cured specimen
Movement capability	`±25 %`	Product value	Product performance value	Correctly designed joints and assemblies

> Values are provided for product comparison and are not intended as batch acceptance specifications.

Substrate suitability

Substrate suitability matrix

Initial adhesion is not proof of long-term compatibility. Test actual finishes, cleaners, primers and adjacent materials.

SUBSTRATE	SCREENING STATUS	MAIN RISK	REQUIRED ACTION
Clear float glass	**Generally suitable**	Surface treatment, contamination and cleaner residue	Clean thoroughly; verify actual glass treatment
Glass-to-glass joint	**Generally suitable**	Glass treatment and joint/load design	Use the approved joint and load design
Glazed ceramic	**Generally suitable**	Soap, grease and processing residue	Clean and test
Porcelain	**Test before use**	Surface-finish variation	Adhesion test recommended
Anodized aluminum	**Test before use**	Anodizing and cleaner variation	Use actual project finish
Painted / coated aluminum	**Compatibility test required**	Coating adhesion and cure variation	Test coating, color and batch
Stainless steel	**Generally suitable**	Grade, finish and prolonged acid exposure	Generally suitable for compatible stainless-steel undermount sink-rim bonding and sealing
Acrylic / polycarbonate / PVC	**Compatibility test required**	Stress cracking, crazing and adhesion variation	Use representative specimens
Copper / brass / zinc	**Not generally recommended**	Corrosion or discoloration	Select a compatible neutral-cure product
Galvanized / mild steel	**Not generally recommended**	Corrosion and coating damage	Specialist review required
Concrete / mortar / cement board	**Not generally recommended**	Porosity, alkalinity and unstable adhesion	Use a compatible construction sealant
Granite countertop	**Generally suitable**	Finish, staining and migration variation	Suitable for granite countertop installation and compatible sink-rim bonding and sealing
Marble / limestone / travertine	**Test before use**	Acid sensitivity, staining, darkening and migration	Test the actual stone, finish, cleaner and adjacent materials before use
Mirror backing	**Not approved**	Backing corrosion, black edge and discoloration	Use only a mirror-approved product
PE / PP / PTFE	**Generally unsuitable**	Very low surface energy	Specialist material review

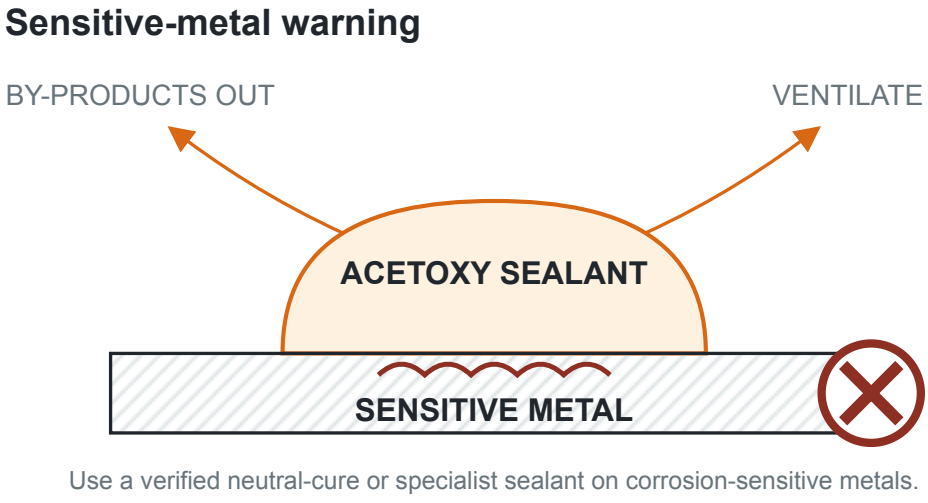


Figure 2.1 - Sensitive-metal selection warning.

Cure interpretation

Cure stages are not interchangeable

Cure progresses from the exposed surface toward the interior. Temperature, humidity, bead thickness and air movement affect the cure profile. Tack-free time does not establish through-cure or full-cure time.

Tack-free	Handling	Through-cure	Return to service
Surface no longer transfers material under the reported check.	Complete tooling before the surface skin develops.	Interior material has cured sufficiently for the intended condition.	Protect from movement and water during early cure.
`0.10 h tested result`	`Approx. 5–10 min at 23°C / 50% RH`	`Approx. 3 mm/24 h at 23°C / 50% RH`	`At least 24 h; 48 h in cold or dry conditions`

Factors that affect cure

- Temperature and relative humidity
- Sealant depth and exposed surface area
- Air circulation and ventilation
- Substrate moisture and confined geometry

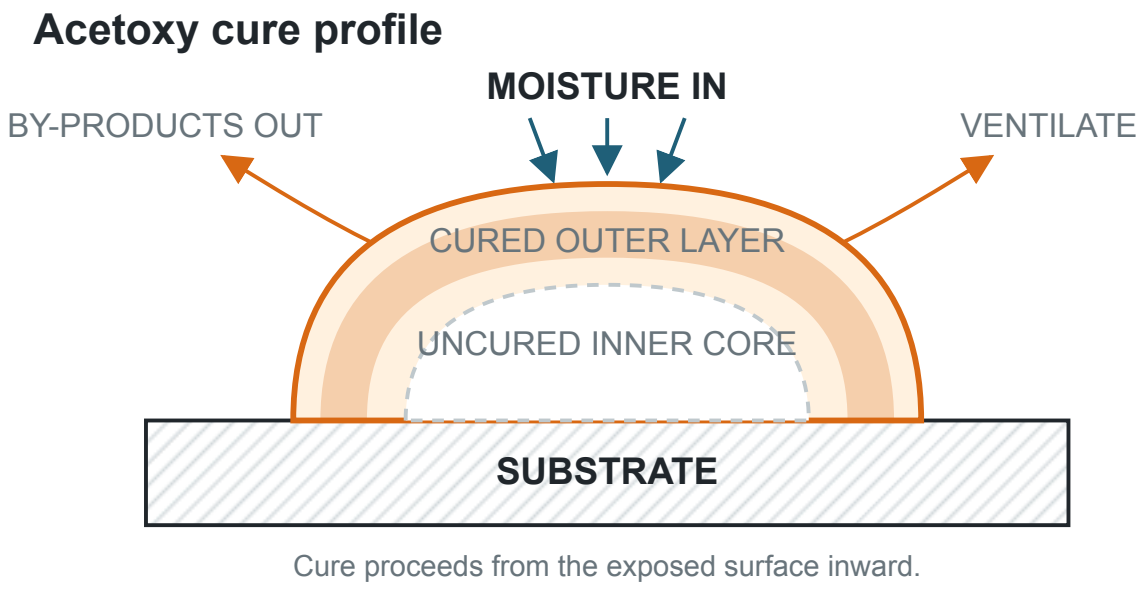


Figure 3.1 - Cure proceeds from the exposed surface inward. Diagram not to scale.

Ventilation is required

Provide adequate ventilation during application and curing. Acetic-acid-type by-products and a characteristic odor may be released while acetoxy silicone cures. Fully confined geometry can restrict moisture entry, slow interior cure and delay by-product release. Do not use odor disappearance as the only cure indicator.

Joint design

Joint design principles

General movement or perimeter joint

Use a backer rod or bond-breaker to support two-sided adhesion. For correctly designed joints, use 6–25 mm width and generally 6–12 mm depth; EX230 movement capability is ±25%.

Glazing or fillet bead

Provide at least 6 mm contact on each bonding face, with continuous contact, complete wetting and no air pockets. Fill the joint continuously rather than using a surface-only triangular bead.

Joint width and depth

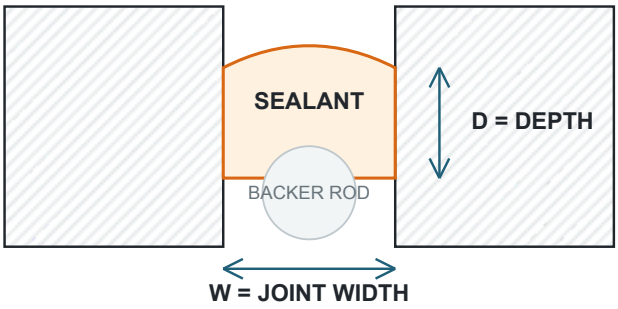
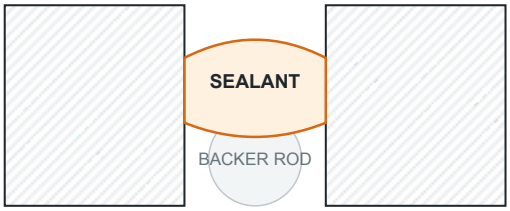


Figure 4.1 - Joint width W and sealant depth D. Diagram not to scale.

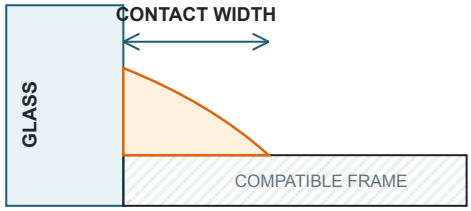
Backer rod position



CONTROLS DEPTH · SUPPORTS TWO-SIDED ADHESION

Figure 4.2 - Backer rod position. Diagram not to scale.

Glazing / fillet bead



Continuous contact on both bond surfaces.

Figure 4.3 - Fillet-joint bond surfaces. Diagram not to scale.

Product-specific joint dimensions

MOVEMENT JOINTS	Use a backer rod or bond-breaker to support two-sided adhesion. For correctly designed joints, use 6–25 mm width and generally 6–12 mm depth; EX230 movement capability is ±25%.
GLAZING / FILLET BEADS	Provide at least 6 mm contact on each bonding face, with continuous contact, complete wetting and no air pockets. Fill the joint continuously rather than using a surface-only triangular bead.

Two-sided adhesion

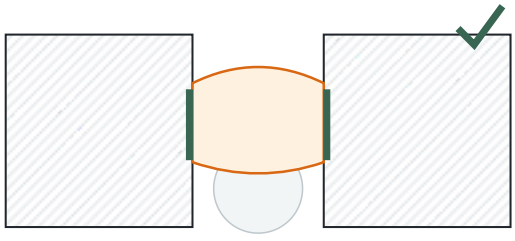


Figure 4.4 - Two-sided adhesion.

Three-sided adhesion risk

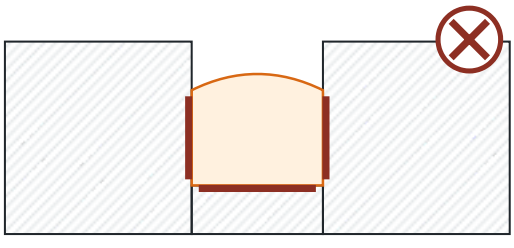


Figure 4.5 - Three-sided adhesion can concentrate stress.

Application conditions and procedure

Application conditions

SURFACE / TEMPERATURE	Clean, dry and free from contamination; +5°C to +40°C; recommended +15°C to +25°C; Substrate at least 3°C above dew point.
MATERIAL SELECTION	Confirm acetoxy compatibility with every substrate, finish and adjacent material before application.
HUMIDITY / VENTILATION	Recommended 30%–80% RH; provide adequate air movement during application and curing.
EARLY CURE PROTECTION	At least 24 h; 48 h in cold or dry conditions

Surface preparation

Bonding surfaces must be clean, dry, sound, stable and free from dust, oil, grease, soap, release agents, old sealant, condensation and cleaner residue.

1. Wipe a small area with a lint-free cloth and an approved cleaner.
2. Before the cleaner evaporates, immediately wipe dry with a second clean cloth.
3. Replace cloths frequently and allow the surface to dry completely.
4. Apply sealant within the validated cleaning-to-application window.



Figure 5.1 - Two-cloth cleaning framework. Diagram not to scale.

Priming

Primer is generally not required on clean glass, glazed ceramic and verified compatible anodized aluminium. Test the actual substrate before use. Primer is not a cleaner and cannot make an incompatible substrate suitable or remove acetoxy-cure corrosion risk.

Application procedure

01 Confirm compatibility
Confirm acetoxy compatibility with every substrate and adjacent material.

02 Confirm the load role
Confirm the joint or bonding requirement is within the approved product capability and assembly design.

03 Prepare the joint
Remove old sealant, loose material, oil, grease, soap, condensation and cleaner residue.

04 Install backing
Install backer rod or bond-breaker tape where required and protect joint edges.

05 Prime where required
Apply an approved primer only where the verified system requires it.

06 Cut and fill
Cut the nozzle to the required opening and fill continuously from the joint base.

07 Prevent air entrapment
Keep the nozzle embedded in fresh sealant to reduce air entrapment.

08 Tool promptly
Tool before skin formation to achieve substrate contact and a continuous finish.

09 Remove masking
Remove masking immediately after tooling and provide adequate ventilation.

10 Protect the early cure
Protect the fresh sealant from movement and water until the approved return-to-service condition is reached.

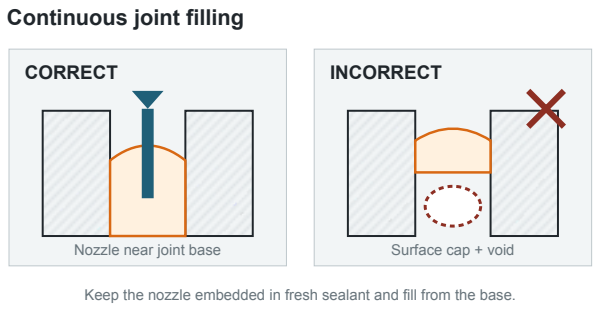


Figure 5.2 - Continuous filling from the joint base. Diagram not to scale.

Limitations, project testing and document control

Limitations

CATEGORY / OBJECT	RISK / RESTRICTION	REQUIRED ACTION / ALTERNATIVE
Countertop and sink mounting	For confirmed granite-countertop and stainless-steel sink-rim use, EX230 provides bonding and watertight sealing within the approved mounting system.	Follow required clips, brackets or other support instructions.
Sensitive metals	Copper, brass, lead, zinc, galvanized steel, mild steel and other corrosion-sensitive metals may develop corrosion, staining or compatibility problems.	Use a verified neutral-cure or specialist sealant.
Mineral and stone surfaces	Concrete, mortar, cement board and other alkaline porous substrates are not generally recommended. Granite countertop work is the primary confirmed natural-stone route. For marble, limestone, travertine or other natural stone, test the actual material and finish before use. Mineral-oil-free formulation is not universal non-staining proof.	Test other natural stone on the actual material and finish before use.
Mirrors and specialty glazing systems	Do not apply to mirror backing without product-specific mirror approval. Specialty glazing assemblies require the actual substrates, joint geometry and project requirements to be confirmed. Do not use at insulating-glass secondary seals, laminated-glass edges or specialty glazing without system approval.	Use only a product and glazing system specifically approved for the intended glass construction and project requirements.
Plastics, membranes and bitumen	Acrylic, polycarbonate, PVC and fiberglass require checks for stress cracking, crazing, adhesion variation and discoloration. EPDM, neoprene, butyl, bitumen and membranes may cause migration, discoloration, adhesion loss or cure interference.	Complete adhesion, stress-cracking, staining and migration checks, or select a specialist product.
Painting	Do not assume cured silicone is paintable; verify the complete coating system.	Verify the complete coating system or leave the silicone unpainted.
Water and immersion	Suitable for aquarium glass sealing and bonding when clean compatible glass, approved joint geometry and complete cure are provided before water filling.	Confirm aquarium joint design, complete cure and water-fill timing.
Sanitary and regulated uses	No sanitary, anti-fungal or mildew-resistance claim is made without formulation and test evidence. No approval is claimed for food contact, medical devices, pharmaceuticals, drinking water or sensitive electronics.	Select a product carrying the required sanitary or application-specific approval.

Common causes of sealant failure

- Incompatible substrates, corrosion-sensitive metals or untested stone finishes.
- Incorrect joint design, load path, dimensions or three-sided adhesion.
- Contamination, residual old silicone, cleaner residue or weak coating adhesion.
- Poor ventilation, fully confined geometry or unsuitable cure conditions.
- Plastic stress cracking, plasticizer migration or material discoloration.
- Incomplete filling, air entrapment, late tooling, premature water exposure, movement or expired material.

Project testing and quality assurance

- Confirm the product model, batch, shelf life and current document revision.
- Confirm the joint or bonding requirement is within the approved product capability and assembly design.
- Test adhesion and compatibility on the actual substrate, finish, cleaner and primer.
- Test other natural stone on the actual material and finish before use; confirm mirrors and specialty glazing separately.
- Confirm joint dimensions, temperature, humidity, dew-point margin and rain-protection requirements.
- Provide ventilation, tool before skin formation and protect the bead until the approved return-to-service condition.

Packaging, colors and storage

PACKAGE	300 mL cartridge
STORAGE	Shelf life is 12 months in unopened original packaging stored at +5°C to +25°C in cool, dry conditions, protected from direct sunlight and excessive heat. Verify the batch number, manufacturing date and expiry date before use.
AVAILABLE COLORS	Black, White, Grey, Clear



Manufacturer and contact information

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The information is based on the supplied EX230 test-data extraction, approved product positioning and general acetoxy-silicone selection principles. Tested values describe the submitted sample under the reported methods and are not batch acceptance specifications. Users must verify product identity, current technical and safety documents, substrate compatibility, joint design and service conditions before use. VESTA may update this document as product evidence and specifications are confirmed.