



GAUDON® D1 — Glass-Bonding Acetic-Cure Silicone Sealant

ULTRA BOND · 100% SILICONE · CRYSTAL-CLEAR GLASS & AQUARIUM SEALANT



10.1 fl oz cartridge

TECHNICAL DATA SHEET

VERSION 2.0 · REVISED JUL 2026
REF GDN-TDS-D1-2026-07

GAUDON® D1 Glass-Bonding Silicone Sealant is a one-component, acetic-cure, moisture-curing 100% silicone for high-strength bonding and sealing of glass and other compatible non-porous substrates. It cures at room temperature to a durable, waterproof bond with excellent clarity and adhesion — ideal for aquarium construction and repair, glass bonding, display cases, glass panels and joints, and general glazing where a crystal-clear finish is required.

BASE	CURE	SERVICE	FINISH	VOC
100% silicone	Acetic (moisture)	-40° to 300°F	Crystal clear	30.4 g/L

FEATURES & BENEFITS

- ▶ High-strength glass adhesion
- ▶ Permanent waterproof bond
- ▶ Crystal-clear finish
- ▶ Won't cloud or yellow
- ▶ Safe for aquarium use when fully cured
- ▶ Durable seal for non-porous substrates
- ▶ Room-temperature cure
- ▶ Excellent clarity & adhesion

APPLICATION BASICS

Skin time	5–10 min	Application temperature	40° to 100°F
Tack-free time	~30 min	Service range	-40° to 300°F
Full cure	24–48 hr	Shelf life	18 months
Colors	Crystal clear	Packaging	10.1 oz cartridge (12)

Adheres to: glass, ceramic, porcelain, PVC, fiberglass, properly prepared glazed surfaces, and compatible non-porous, non-metallic substrates. Acetic cure can corrode metals — use a neutral-cure silicone (GAUDON G-series) on metal. Porous substrates may require primer.
Colors: Crystal Clear.

WHERE TO USE

- Aquariums & fish tanks
- Glass bonding & glazing
- Display cases
- Glass panels & joints
- Glass partitions
- Non-porous substrate sealing

WHERE NOT TO USE

- × Structural bonding
- × Metal substrates — use a neutral-cure silicone
- × Continuous water immersion before full cure
- × Unprimed porous substrates (e.g. concrete)
- × Wet or frozen surfaces
- × Medical, dental, or food contact

COMPLIANCE & SPECIFICATIONS

- ✓ Complies with **SCAQMD Rule 1168** VOC limits
- ✓ Manufactured in an **ISO 9001:2015** facility
- ✓ **TSCA** compliant

TECHNICAL PROPERTIES

TYPICAL VALUES — NOT INTENDED FOR SPECIFICATION PURPOSES

Property	Value	Method / Source
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Base	100% silicone	Manufacturer data
Cure system	Acetic cure, moisture cure	Manufacturer data
Consistency / appearance	Paste, crystal clear	Manufacturer data
Skin time	5–10 min	Manufacturer data
Tack-free time	~30 min	Manufacturer data
Full cure	24–48 hr	Manufacturer data
Application temperature	40°F to 100°F (4°C to 38°C)	Manufacturer data
Service temperature	-40°F to 300°F (-40°C to 149°C)	Manufacturer data
VOC content	30.4 g/L · Rule 1168 compliant	EPA Method 24
Shelf life	18 months, unopened, below 80°F	Manufacturer data

VOC content is independently tested by SGS (report no. GZIN2601000312PL04; SCAQMD Rule 1168 / U.S. EPA Method 24; result 30.4 g/L vs. 65 g/L limit). All other values are typical and are not intended for specification purposes; mechanical performance testing is pending.

COVERAGE GUIDE (approximate, continuous bead)

Bead size (W × D)	10.1 fl oz cartridge
1/8" × 1/8"	~96 linear ft
1/4" × 1/4"	~24 linear ft
3/8" × 3/8"	~11 linear ft

APPLICATION INSTRUCTIONS

1. Make sure surfaces are clean, dry, sound, and free of old sealant, dust, grease, and loose material. Do not apply to wet or frozen surfaces.
2. Porous substrates may require primer for optimal adhesion — confirm compatibility before full-scale application. Cut the nozzle at a 45° angle and puncture the inner seal; load into a standard caulking gun.
3. Apply a continuous bead with steady, even pressure, ensuring full contact with both sides of the joint or bonding surface.
4. Tool immediately, before skin forms, for proper contact, a neat finish, and a uniform bond line.
5. Allow to cure fully before water exposure or service use. Cure time varies with joint size, temperature, and humidity.

STORAGE, SAFETY & WARRANTY

Storage: store unopened cartridges in a cool, dry, well-ventilated area below 80°F (27°C); keep tightly sealed and protected from direct sunlight, moisture, and excessive heat. Shelf life 18 months from manufacture in the original unopened package. **Safety:** review the current SDS before use; use in well-ventilated areas, avoid eye/skin contact, wear gloves, keep out of reach of children. **Limited warranty:** manufacturer warrants performance, used as directed, for one (1) year from date of purchase; limited to replacement cost of product only. Manufacturer and seller are not liable for incidental or consequential damages.

DISCLAIMER: The data reported herein are based on independent laboratory testing and information from the product's manufacturing source and are believed to be reliable and accurate as of the date of issue. No warranty, express or implied, is made as to the accuracy of such data or the results to be obtained from their use. This information is provided for reference only and does not relieve the user of the responsibility to determine the product's suitability through independent testing. All values presented in this document are approximate and subject to change without notice. The information provided is intended as a general guide only and does not constitute a specification for all applications. Except for the limited warranty stated above, no other warranty is expressed or implied, including any warranty of fitness for a particular purpose. Because conditions and usage are beyond the manufacturer's control, neither manufacturer nor seller assumes responsibility for the use or misuse of this product. Each user is solely responsible for determining the suitability of this product for its particular use and application, including prior testing under actual jobsite conditions. No responsibility is assumed for coverage, performance, or injuries resulting from the use of this product. Liability, if any, is limited to replacement cost of product. Please refer to www.gaudon.store for the most up to date Technical Data Sheets and Safety information.