

STANLEY® S 420 SPECIALITY AQUARIUM SILICONE™



DESCRIPTION

STANLEY S 420 SPECIALITY AQUARIUM SILICONE is a one component, high quality acetoxy curing silicone sealant that provides a permanently flexible, durable, watertight seal when building fish tanks and aquariums. It has a non-toxic, solvent-free formulation which provides an aquatic safe environment. It is mainly used in fish tanks, aquariums and glazing applications where there is a need for ideal sealing features in glass to glass applications. It also performs an excellent adhesion on non-porous surfaces where an elastic gap-filling bond is required.

PRODUCT FEATURES

- Solvent free
- Non-toxic to fish
- Resistant to water, UV, weathering and aging
- Resistant to alcohol, diluted acids, soap, household detergents and various other chemicals
- One component, rapid curing with atmospheric moisture
- Keeps its elasticity at low and high temperatures
- Excellent bonding and physical strength features

APPLICATIONS

- Construction and repair of fish tanks, aquariums and many glass structures.
- Suitable on glass/aluminum structures.
- Glazing on aluminum frames and shop displays.
- Sealing of windows and doors.

PRODUCT INFORMATION

PACKAGING	10,1 fl oz / 300ml
	12 pcs in box
SHELF LIFE	18 Months
STORAGE	In a cool and dry environment, between +41°F to +77°F.
COVERAGE	Reference: www.stanleychem.com/en/joint-sealant-calculator
SKU	COLOR
SXSE 1092-01	Translucent Clear
SXSE 1093-01	Black

DIRECTIONS FOR USE

- **CLEANING AND JOINT PREPARATION:** Substrates must be sound quality, clean, dry and free of dust, grease, rust and other contaminants which may affect the adhesion. Non-porous surfaces (such as aluminum, glass, etc.) must be free of any coatings and should be cleaned with a suitable solvent and thoroughly dried with a clean cloth. Porous substrates (such as concrete, brickwork, etc.) must be mechanically cleaned from loose particles or residues with a jet of compressed air, sandpaper or hard brush. Mask off joint edges with self-adhesive tape as protection from contamination.
- **BACKING MATERIAL:** Use a polyethylene bond breaker tape or backer rod to adjust the joint depth to proper width/depth ratio and to avoid three side adhesion which restrict the movement capability of the sealant. The backer rod must be at least wider 25% than the joint width.
- **SEALANT APPLICATION:** Recommended application and surface temperatures: +41°F and +104°F. Cut nozzle to obtain desired bead size. Apply the sealant as evenly as possible by using a professional caulking gun.
- **TOOLING AND FINISHING:** Tool the joint surface with a smoothing tool ensuring the sealant a full contact to the sides and backup material into the joint before skin formation. Remove the masking tapes immediately after smoothing over the surface of the sealant.
- **CLEANING:** Uncured product may be easily removed with damp sponge. Cured product must be removed mechanically. Hands can be cleaned with warm water and soap.

LIMITATIONS

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Not over paintable.
- Do not use it in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- Can yellow if exposed to bleach or HCl based brick cleaners whilst curing.



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KEY FEATURES

- FISH TANK ASSEMBLY
- GLASS & ALUMINUM SEALING
- PERMANENTLY ELASTIC



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- Do not expose to water before fully cured.
- Do not use it to produce swimming pool joints.

TECHNICAL DATA

PARAMETER	TEST METHOD / CONDITIONS	VALUE
UNCURED SEALANT		
BASIS		Silicone Polymer
CURING MECHANISM	Acetoxy	
SAGGING	ISO 7390	0 inch
DENSITY	ISO 1183-1	8,5 ± 0,3 lb/gal
SKIN FORMATION TIME	Internal (73°F and 50% R.H)	7 - 13 min
DRYING RATE	Internal (73°F and 50% R.H)	Min. 0,12 in/day
CURED SEALANT		
SHORE A HARDNESS	ISO 868	24 – 30
ELASTIC RECOVERY	ISO 7389	Approx. 100%
VOLUME LOSS	ISO 10563	< 5%
ELONGATION AT BREAK	ISO 37 (4 mm thickness) (45 days 73°F and 50% R.H)	≥%250
TENSILE STRENGTH	ISO8339	≤ 58 psi
SERVICE TEMPERATURE	Ambient and surface	Between -58°F and +392°F
APPLICATION TEMPERATURE	Ambient and surface	Between +41°F and +104°F

SAFETY

Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Store in a well-ventilated place. Keep cool. Check MSDS guidelines for disposal and further information concerning safety.

DISCLAIMER

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

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BEST TO USE WITH

	SKU NUMBER	PRODUCT NAME
	SXAC0423-01	PRO-CG2 Pro Caulking Gun
	SXAC0426-01	Smoothing Tool Set
	SXAC0428-01	Cartridge & Nozzle Cutter