

NuFlex® 319 GLAZING SILICONE SEALANT



NuFlex® 319 Glazing Silicone Sealant is a one-part, medium modulus, non-corrosive moisture curing 100% silicone sealant. NuFlex® 319 has superior adhesion to most construction materials without the need for a primer. It cures to form a flexible, watertight bond to almost any substrate. NuFlex® 319 is often referred to as our most versatile, general use neutral cure silicone sealant.

■ FEATURES & TYPICAL USES:

Features:

- Neutral cure
- 100% Silicone
- Water resistant before, during, and after cure
- RTV (Room Temperature Vulcanization)
- An excellent multi-purpose neutral cure
- Adheres to many porous substrates
- 50 year durability
- Can be applied in sub-zero temperatures
- Meets AAMA

Bonds To:

- Glass
- Plastic
- Metal
- Concrete
- Masonry
- Stone
- PVC
- Ceramic

Basic uses include:

1. Exterior weather proofing
2. Sealing joints where one or more substrate is stone
3. Cap, heel, & toe beads for window glazing

Other uses include:

1. Replacing glass tiles & back splashes
2. Gasket making for appliances
3. Sealing PVC door tracks to the ground

■ SURFACE PREPARATION & APPLICATION:

Before Use: Read the label in its entirety.

Surface Preparation:

- Surfaces must be structurally sound, clean, dry, and free from oil, grease, water, dirt, or any other material and membranes that may deter adhesion.
- Rinse all surfaces [excluding plastics] with acetone.
- Rubber surfaces should be roughened with sandpaper, then wiped with acetone.
- Should your gap exceed 6 mm (~1/4"), use a backer rod prior to applying sealant.

Application:

1. Cut nozzle to desired bead size and cut inner seal.
2. Using a caulking gun, dispense a bead of sealant to the prepared surfaces in a uniform thickness. 319 Glazing is supplied ready-to-use.
3. Smooth and tool bead immediately following installation.
4. Allow sealant time to cure in an unconfined area.

Cure:

- Cure time is affected by humidity, degree of confinement, and cross-sectional thickness of the sealant.
- Sections up to 3.2 mm (1/8") thick become rubbery solids in 24 hours at 25°C (77°F) at 50% relative humidity.
- In applications where NuFlex® 319 may be partially or totally confined during cure, the time required for proper cure is generally lengthened by the degree of confinement. Every application involving confinement should be thoroughly tested before production procures.
- Curing time increases with the thickness of the sealant. A 12.7 mm (1/2") cross section for example, may require 3 or 4 days for complete cure. However, the cure will have penetrated the outer 3.2 mm (1/8") in about 24 hours.

Clean-up:

1. Uncured NuFlex® 319 silicone sealant cannot be removed with water.
2. Remove the bulk of the uncured sealant with a plastic scraper, being careful not to compress it into cracks or crevices.
3. Use a cloth saturated with mineral spirits, acetone, or denatured alcohol to wipe away any remaining silicone.
4. Clean surface with soap and water if possible.



NuFlex
SEALANTS



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TYPICAL PROPERTIES:

These values are not intended for use in preparing specifications. Spec Writers; please contact NUCO Inc. before writing specifications if any further information is required.

Description	Specification
As Supplied...	
Type:	One part silicone sealant
Cure method:	Neutral, moisture cure
Specific gravity:	1.04
Extrusion rate (3.2mm (1/8") orifice, 90 psi air pressure) g/minute:	440
Application temperature range (°C (°F)):	-29° to 50°C (-20° to 122°F)
Tack free time (25°C (77°F)) and 50% relative humidity:	25 minutes
Cure time 1/8" bead (25°C (77°F)) and 50% relative humidity:	14 - 21 days
As Cured - Physical - after 7 days at 25°C (77°F) and 50% relative humidity...	
ASTM C 611 - Durometer Hardness Shore A, points:	30
ASTM D 421 - 100% modulus, MPa (psi)	0.52 (75)
ASTM D 412 Die C - Tensile Strength, MPa (psi):	1.9 (275)
ASTM D 412 Die C - Elongation at break, percent:	540%
ASTM C794S - Peel adhesion strength, kN/m (PPI):	5.25 (30)
ASTM D 624 - Tear strength, kN/m (PPI):	5.25 (30)
Joint movement capability:	± 25%
ASTM C 1299 - Service temperature range:	-51° to 149°C (-60° to 300°F)

Disclosure: The information and data contained herein is BASED ON INFORMATION WE BELIEVE TO BE RELIABLE. Please read all statements, recommendations or suggestions herein in conjunction with our CONDITIONS OF SALE which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as recommendation for any use which would infringe any patent or copyright.

LIMITATIONS:

- In confined cure conditions NuFlex® 319 may discolour brass, copper or other sensitive metals.
- May stress craze polycarbonate.
- Do not use below-grade

STORAGE AND SHELF LIFE:

- Shelf life is 24 months from the date of manufacture when stored in a clean, dry area.
- Store between 4° to 32°C (40° to 90°F).
- For best results, store the sealant in tightly closed containers when not in use.

CAUTION:

- Use in well ventilated areas and avoid breathing vapours.
- On contact, uncured sealant irritates eyes. Flush eyes with lukewarm water. Call physician.
- Avoid skin contact and DO NOT ingest.
- Consult Safety Data Sheet.

50 YEAR DURABILITY STATEMENT:

Material will remain elastic in nature for 50 years. Independent tests indicate that silicone sealant will withstand outdoor weathering for 50 years without significant performance changes. This statement applies to the sealant itself and not to the substrates to which it is bonded to. In the event of elasticity failure, return original container and sales receipt to Nuco Inc. NUCO's liability, expressed or implied is limited to the stated selling price of any goods found to be defective.

MANUFACTURER INFORMATION:

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SPECIFICATIONS:

NuFlex® 319 Glazing Sealant meets:

- NuFlex® 319 Glazing has achieved GREENGUARD GOLD Certification
- CAN/CGSB-19.13-M87, Class MG-2-25 - A -L,
- South Coast AQMD Rule 1168 Compliant
- ASTM C920, Type S, Grade NS, Class 25, use NT, G, A, O. U.S.
- Fed Specs TT-S-001543A and TT-S-00230C Type 2.

LIMITED WARRANTY INFO:

NUCO Inc., warrants only that its product will meet its specifications for a period of 12 months following date of manufacture. NUCO shall in no event be liable for incidental or consequential damage, or improper storage. NUCO's liability, expressed or implied is limited to the stated selling price of any goods found to be defective.



AVAILABLE SIZES & COLOURS:

SKU	Colour	Size	Format
31900	Clear	300 ml	Cartridge
31901	White	300 ml	Cartridge
31903	Black	300 ml	Cartridge
31906	Grey	300 ml	Cartridge