

NuFlex® 313 FAST CURE SILICONE SEALANT



NuFlex® 313 Fast Cure Silicone Sealant is a one-part, 100% silicone sealant that exhibits accelerated development of its surface elastic properties. It provides excellent adhesion to a wide variety of substrates. It is extremely popular in industrial settings where having a short set time is a requirement. SKIN-OVER: 7 min.; TACK FREE: 15 min.; SCRATCH RESISTANT: 30 min.

■ FEATURES & TYPICAL USES:

Features:

- Neutral Cure
- 100% Silicone
- Water resistant before, during, and after cure
- RTV (Room Temperature Vulcanization)
- Accelerated cure time
- Adheres to many porous substrates
- 50 year durability
- Meets AAMA

Bonds To:

- Aluminium
- Wood
- Galvanized steel
- Glass
- Most metals
- Most plastics
- Most vinyls

Basic uses include:

1. OEM manufacturing (truck & trailer bodies)
2. Cap, heel, & toe beads for window sealing

Other uses include:

1. Appliance repair, reassembly, and reconditioning
2. Sealing vinyl components where speed is important

■ 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. 313 Fast Cure 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® 313 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 proceeds.
- 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® 313 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:	1.12
Application temperature range (°C (°F)):	-29° to 50°C (-20° to 122°F)
Skin over time (23°C (73°F)) and 50% relative humidity:	5-7 minutes
Tack free time (23°C (73°F)) and 50% relative humidity:	15 minutes
Cure time 1/8" bead at (25°C (77°F)) and 50% relative humidity:	24 hours
As Cured - Physical - after 7 days at 25°C (77°F) and 50% relative humidity...	
ASTM C 611 - Durometer Hardness Shore A, points:	20
ASTM D 421 - 50% modulus, MPa (psi):	0.21 (30)
ASTM D 421 - 100% modulus, MPa (psi):	0.31 (45)
ASTM D 412 Die C - Tensile Strength, MPa (psi):	1.53 (220)
ASTM D 412 Die C - Elongation at break, percent:	500%
ASTM D 624 - Tear strength, kN/m (PPI):	6.1 (35)
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® 313 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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 Guelph, ON N1K 1N5 F: 519-823-1099 E: info@nucoinc.com

SPECIFICATIONS:

NuFlex® 313 Fast Cure Sealant meets:

- U.S. Fed. Spec. TT-S- 001543A (COM-NBS) Class A
- TTS-00230CC (COM-NBS) Class A.
- ASTM: C-920, Type S, Grade NS, Class 25 Use NT, M, G, A, O;
- CAN/CGSB-19.13-M87,
- Class MCG-2-25-A-L
- AAMA 802.3, Type II
- AAMA 803.3, Type I

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
31300	Clear	300 ml	Cartridge
31301	White	300 ml	Cartridge