

331 Exterior Trim Silicone Sealant

NuFlex
SEALANTS

NEUTRAL CURE SILICONE TECHNICAL DATA SHEET

NuFlex® 331 Exterior Siding & Trim Silicone Sealant is a primerless, non-corrosive 100% neutral cure silicone sealant that exhibits low modulus and high adhesive qualities when cured. **NuFlex® 331** is a high-quality, ready-to-use silicone that has a very high level of adhesion, especially to substrates such as PVC and other plastics which have typically shown difficulty with adhesion. **NuFlex® 331** is unaffected by UV and airborne chemicals.

FEATURES & TYPICAL USES:

NuFlex® 331 is utilized for multiple glazing applications where a clear, high-adhesion product is preferred. Factory-made windows as primary seal/bedding compound; window installation (especially with wood finishes); vinyl siding installation; factory and field installed metal building systems; appliance manufacturing; aircraft and automotive glazing and manufacturing.

SURFACE PREPARATION & APPLICATION:

Metal, glass and plastic surfaces should be cleaned with an oil-free solvent and should be wiped dry. Soap and water are not acceptable.

Priming: When applied to normal building substrates, **NuFlex® 331** requires no priming.

Masking: After pre-work is completed, areas where sealant is not desired can be masked off with tape. The tape should not come in contact with cleaned areas where sealant is to be applied. Tooling, if required should be done immediately after sealant is applied and in one continuous motion. Masking tape should be removed immediately after tooling is completed. **NuFlex® 331** is not recommended for use below grade or in joints where abrasion such as foot or wheel traffic is possible or on surfaces that are to be painted. The paint film will not adhere to the sealant and may crack or peel. Glass-to-glass butt joints should be tested for appearance prior to production.

Joint Design: Joint depths should not exceed 12.7 mm (1/2") and be no thinner than 3.2 mm (1/8"). A thinner bead of **NuFlex® 331** will allow more joint movement than a thick bead. For perimeter sealing or expansion joint design, the ratio of joint width to depth should be about 2:1. Polyurethane or polyethylene backer rod is recommended for deep joints and polyethylene tape for shallow joints. These materials act as bond breakers and allow the sealant to stretch freely with joint movement. Install back-up material, setting blocks, spacer shims and tapes as specified. Apply **NuFlex® 331** in a continuous bead to fill joint. Tool with enough pressure to push the sealant down into and against the sides of the joint. Tool the sealant applied at the sill on a slight upward angle so that moisture will not pool. Excess sealant should be cleaned from glass, metal and plastic with a commercial solvent such as xylol, toluol or methyl ethyl ketone before sealant cures. Sealant that comes in contact with porous surfaces should be allowed to cure and then be removed with abrasion or other mechanical means.

CAUTION:

Use in well ventilated areas and avoid breathing vapors. On contact, uncured sealant irritates eyes. Flush eyes with lukewarm water. Call physician. Avoid skin contact and do not ingest. **Keep out of reach of children.** For complete safety information, consult the Material Safety Data Sheet. Standard silicones may not be used to join sensitive natural stones such as marble, granite or quartz, as this may cause staining at the joint edges.

LIMITATION:

In confined cure conditions, **NuFlex® 331** may: 1) Discolour brass, copper or other sensitive metals. 2) Stress craze polycarbonate.

MANUFACTURED BY:

NUCO INC. T: 519.823.4994 TF: 1.800.853.3984
150 Curtis Drive F: 519.823.1099 E: sales@nucoinc.com
Guelph, ON N1K 1N5



FORM: 331_TDS.DOC

REV.: 5 DATE: 05/16



FEATURES:

- 100% Silicone.
- 100% RTV.
- 50 year durability.
- Ideal for exterior trim & siding.
- Adheres to many porous substrates.

AVAILABLE SIZES & COLOUR:

- 300 mL (10.1 fl.oz.) cartridge
- 12 cartridges per case
- 144 cases per skid (300 mL)
- Available in larger sizes*
- Available colors include: clear, white, & black.

**Special order items may require lead times and minimum order quantities.*



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SHELF-LIFE & STORAGE:

Shelf-life is 12 months from date of shipment from our plant when stored in a clean, dry area with temps between 4°C to 32°C (40°F to 90°F).

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...	
Specific Gravity:	1.02
Tooling Time (50% R.H. and 25°C (77°F) – in minutes:	5
Tack-Free Time (50% R.H. and 25°C (77°F) – in minutes:	20
As Cured – Physical – after 7 days at 25°C (77°F) and 50% Relative Humidity:	
Hardness (ASTM C 661, Shore A)::	16
50% Modulus (ASTM D 412, Die C) MPa (psi):	0.17 (25)
100% Modulus (ASTM D 412, Die C) MPa (psi):	0.24 (35)
Tensile Strength (ASTM D 412, Die C)MPa (psi)	1.17 (170)
Elongation at Break (ASTM D412, Die C):	600%
Tear Strength (ASTM D 624) – kN/m (ppi):	4.9 (28)
Joint Movement Capability:	+/- 50%
Service Temperature Range – ASTM C1299:	-51°C to 149°C (-60°F to 300°F)
Application Temperature Range:	-29°C to 50°C (-20°F to 122°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.

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SPECIFICATIONS:

NuFlex® 331 complies with the following specifications:

- CAN/CGSB-19.3-M87, Class MCG-2-40-A-L ;
- ASTM C920, Type S, Grade NS, Class 25, Use NT, M, G, A, O.

50 YR. 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., 150 Curtis Drive, Guelph ON N1K 1N5, Canada. NUCO's liability, expressed or implied is limited to the stated selling price of any goods found to be defective.

WARRANTY INFORMATION:

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

