NuFlex® 302 BATH & KITCHEN SILICONE SEALANT



NuFlex® 302 Bath & Kitchen Silicone Sealant is a medium modulus one-component acetoxy cure, non-sag caulking material. NuFlex® 302 Bath & Kitchen is especially formulated to resist mould and mildew when fully cured. NuFlex® 302 Bath & Kitchen has excellent adhesion to ceramics, tile board, laminates such as Corian® and Arborite® and most acrylics.

NuFlex® 302 Bath & Kitchen has good resistance to weathering, vibration, moisture, ozone and extreme temperatures. It may be applied in sub-zero weather without loss of extrusion or physical property characteristics and is effective to -46°C (-50°F).



FEATURES & TYPICAL USES:

Features:

- Acetoxy Cure
- Certified by NSF
- 100% Silicone
- Water resistant before, during, and after cure
- RTV (Room Temperature Vulcanization)
- Mildew resistant
- Excellent extreme temperature performance
- 50 year durability
- Can be applied in sub-zero temperatures

Bonds To:

- Metal
- Laminates
- Glass
- Wood
- Silicone resin and vulcanized silicone rubber
- Ceramic
- Natural & synthetic fibres
- Painted surfaces
- Most plastics

Basic uses include caulking and sealing around:

1. Bathtubs
2. Shower stalls
3. Bathroom vanities
4. Kitchen counters and sinks

Other uses include:

1. Replacing ceramic tiles
2. Gasket making for dishwasher doors
3. Sealing inside refrigerators and freezers

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 [unless packaged in a squeeze tube], dispense a bead of sealant to the prepared surfaces in a uniform thickness. 302 Bath & Kitchen 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® 302 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® 302 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:	Acetoxy, moisture cure
Specific gravity:	1.01
Extrusion rate (3.2mm (1/8") orifice, 90 psi air pressure) g/minute:	400
Flow rate (sag or slump):	Nil
Application temperature range (°C (°F)):	-29° to 50°C (-20° to 122°F)
Tack free time (25°C (77°F)) and 50% relative humidity:	10 - 20 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	25
ASTM D 412 Die C - Tensile Strength, MPa (psi):	2.25 (325)
ASTM D 412 Die C - Elongation, percent:	550
ASTM D 746 - Brittle Point, °C (°F)	-62 (-80)
ASTM S 2137 A - Volume Coefficient of Thermal Expansion:	0° to100°C 9.3 x 10.4
Thermal Conductivity, Cal/[(sec)(°C)(cm)]:	0.45 x 10.3
As Cured - Electrical - after 7 days at 25°C (77°F) and 50% relative humidity...	
ASTM D 257 - Volume Resistivity (OHM - cm):	1.5×10^{15}
ASTM D 149 - Dielectric Strength - kV/mm(V/mil):	21.7 (550)
ASTM D 150 - Dielectric Constant at 60 Hz, 100 Hz, and 100kHz:	2.8
ASTM D 150 - Dissipation Factor at 60 Hz, 100 Hz, and 100kHz:	0.0015

*Fully cured NuFlex® 302 Bath & Kitchen can be used for extended periods at temperatures up to 232°C (450°F)

SPECIFICATIONS:

NuFlex® 302 Bath & Kitchen meets:

- CAN/CGSB-19.13-M87,
- NuFlex® 302 Bath & Kitchen has achieved GREENGUARD GOLD Certification
- Class MG-2-25 - A -L,
- (2) 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.
- Certified by NSF.
- Agricultural Canada Approved.
- Once fully cured, NuFlex® 302 Bath & Kitchen meets the requirements of FDA Regulation No. 21 CFR 177.2600 subject to end use.
- Meets USDA regulation for use in federally inspected meat and poultry plants.
- South Coast AQMD Rule 1168 Compliant
- NuFlex® 302 Bath & Kitchen is recognized by Underwriters Laboratories for service to 150°C (302°F) where elongation is not essential.
- UL plastics component QMFZ2 file no. E 196754

GREENGUARD GOLD — PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS ULCOM/GG UL 2818

RTV

NSF — CERTIFIED TO NSF 51 FOR FOOD CONTACT TO A MAX TEMP OF 204°C (400°F)

CERTIFIÉ À LA NSF 51 POUR LE CONTACT ALIMENTAIRE À UNE TEMP. MAX. 204 °C (400 °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 theses statements, recommendations or suggestions, nor do we intend them as recommendation for any use which would infringe any patent or copyright.

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.

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.
- Sealant releases acetic acid (odour similar to vinegar) during cure.
- Consult Safety Data Sheet.

LIMITATIONS:

- Not to be used on most porous substrates such as stone or concrete as the acetic properties of the sealant will form a salt that will break the bond.
- Sealant may not be used to join sensitive natural stones such as marble, granite, or quartz as it may cause staining at the joint edges.
- Sealant can corrode and may not adhere to copper, alloys containing copper, brass, magnesium, zinc, alloys zinc containing, and galvanized metals.

AVAILABLE SIZES & COLOURS:

SKU	Colour	Size	Format
30240	Clear	300 ml	Cartridge
30241	White	300 ml	Cartridge
30245	Almond	300 ml	Cartridge
30246	Grey	300 ml	Cartridge
30248	Translucent	300 ml	Cartridge
30250	Beige	300 ml	Cartridge
30251	Bone	300 ml	Cartridge

LIMITED WARRANTY INFO:

NUCO Inc. warrants that unopened product will meet published specifications for its stated shelf life when stored as recommended. 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.

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