

366 Marine Silicone Sealant

NuFlex
SEALANTS

ACETOXY SILICONE TECHNICAL DATA SHEET

NuFlex® 366 Marine Silicone Sealant is a 100% medium modulus, one component caulking material with a consistency similar to that of toothpaste. **NuFlex® 366** cures to a tough, rubbery solid upon exposure to moisture in the air. Because it does not flow due to its own weight, this sealant can be applied overhead or on sidewall joints and surfaces without sagging, slumping or running off. It adheres to clean metal, glass, most types of wood, silicone resin, vulcanized silicone rubber, ceramic, natural and synthetic fiber, painted surfaces and many plastics.

NuFlex® 366 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:

NuFlex® 366 Marine Silicone Sealant can be used for the following: 1) Caulking and sealing around bathtubs, shower stalls, bathroom vanities, kitchen counters, sinks, windshields, deck hardware, portholes and hull fixtures, above the water line. 2) For making gaskets to replace costly paper gaskets, for timing chain and valve covers and for water pump thermostat housings. 3) Any application that requires a permanently flexible waterproof seal that will withstand moisture, heat and vibration.

Caution: **NuFlex® 366** Marine sealant can corrode or may not adhere to copper, brass and copper-containing alloys), magnesium, zinc and galvanized metals (and other zinc-containing alloys).

SURFACE PREPARATION & APPLICATION:

Applying: **NuFlex® 366 Marine Silicone Sealant** is supplied ready-to-use. It flows readily from its container under pressure. The paste-like consistency makes it easy to work with. A spatula, wooden paddle or wetted finger can be used to tool the surface.

Cure Time: Cure time is affected by relative humidity, degree of confinement and cross-sectional thickness of the sealant. Sections up to 3.2 mm (1/8") thick become rubbery solids in about 24 hours at room temperature and 50% relative humidity.

In applications where **NuFlex® 366 Marine Silicone Sealant** 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 during cure should be thoroughly tested before production commences. Cure 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 3.2mm (1/8") in about 24 hours. Adhere to glass, metal or most woods, **NuFlex® 366** has a typical peel strength of 20 pounds per inch, after 72 hours at room temperature.

Bonding: 1) Thoroughly clean and degrease metal and plastic surfaces. Then wipe all surfaces, except plastic, with acetone. Rubber surfaces should be roughened with sandpaper, then wiped with acetone. Follow the precautions given on the solvent container. 2) Apply **NuFlex® 366** to the prepared surfaces in a uniform thickness. Best adhesion is obtained with a 0.4 – 0.8mm (15-30 mil) glue line. If the adhesive is used between two surfaces, put the second surface in place, using enough pressure to displace the air but not the adhesive.

3) Let the unit stand undisturbed at room temperature to cure.

Sealing: The use of **NuFlex® 366 Marine Silicone Sealant** in sealing application follows approximately the same step-by-step procedures as outlined for bonding application.

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: 366_TDS.DOC

REV.: 4 DATE: 12/09



FEATURES:

- 100% Silicone.
- 100% RTV.
- 50 year durability.
- Ideal for above water line marine applications.
- Adheres to many porous substrates.
- Resists extreme weather, vibration, moisture and weathering.

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.

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



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SPECIFICATIONS:

NuFlex® 366 meets the following specifications:

- CAN/CGSB-19.13-M87, Class MG-2-25 - A - L;
- 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.
- After fully cured & washed meets the requirements of FDA Regulation No. 21 CFR 177.2600 subject to end use.
- Note: Clear and white. NuFlex 366 meets USDA regulation for use in federally inspected meat and poultry plants for clear and white colours

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.

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 Material Safety Data Sheet. Sealant releases acetic acid (vinegar-like odour) during cure. 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.

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:	1.01
Extrusion Rate(3.2 mm)(1/8") orifice, 90psi air pressure) g/min.:	400
Flow Rate (sag or slump):	Nil
Tack-Free Time (50% R.H. and 5°C (77°F) – in minutes:	10 to 20 minutes
Cure Time at 25°C (77°F) and 50% R.H. (3.2 mm (1/8") Thickness) in hours:	24
As Cured – Physical – after 7 days at 25°C (77°F) and 50% R.H.	
Hardness (ASTM C 661, Shore A), points:	25
Tensile Strength (ASTM D 412, Die C)MPa (psi):	2.24 (325)
Elongation at Break (ASTM D412, Die C):	550%
ASTM D 746 – Brittle point, °C (°F):	-64 (-80)
ASTM D 2137 A – Volume Coefficient of Thermal Expansion 0 to 100°C (32°F to 212°F):	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% R.H.	
ASTM D 257 – Volume Resistivity (OHM – cm):	1.5 x 10 ¹⁵
ASTM D 149 – Dielectric Strength – kV/mm (V/mil):	21.7 (550)
ASTM D 150 – Dielectric Constant at 60Hz, 100Hz and 100 kHz:	2.8
ASTM D 150 – Dissipation Factor at 60Hz, 100Hz and 100 kHz:	0.0015
Note: Fully cured NuFlex® 366 can be used for extended periods at temperatures up to 232°C (450°F).	

SHELF-LIFE & STORAGE:

Shelf-life is 12 months from date of shipment from our plant when stored in clean, dry area with temperature between 40°F to 90°F (4°C to 32°C). For best results, keep the sealant in tightly closed containers when not in use.

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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