



# NEW ADHESIVE TECHNOLOGY

NuFlex® 435 Hybrid Adhesive is a flexible and watertight hybrid adhesive. It can be used for both interior and exterior applications as it is non-corrosive, low VOC, and resistant to weathering and UV. NuFlex® 435 has strong adhesion to wood, metal, brick, stone, plastics, vinyl, mirror backing, and much more.



# NuFlex® 435 WATERTIGHT ADHESIVE

OUR FIRST HYBRID ADHESIVE



**NON  
CORROSIVE**

**PERMANENTLY  
FLEXIBLE**

**INTERIOR +  
EXTERIOR**

**LOW  
VOC**

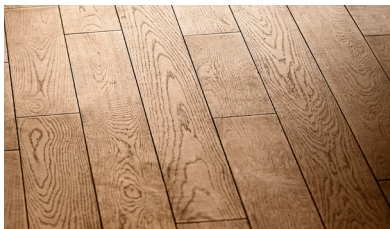


**FOR ALL BONDING • FLEXIBLE • 100% WATERTIGHT • HIGH STRENGTH**

**PERFECT FOR MULTI-TRADE**

- PERIMETER JOINT SEALING
- TILT-UP CONCRETE AND PRE-CAST CONSTRUCTION
- FLASHING AND ROOFING INSTALLERS
- WINDOW AND DOOR INSTALLERS
- COVE BASE AND STAIR TREAD INSTALLERS
- MODULAR HOMES

Also available in a 591 mL sausage



**SPECIALTY HYBRID FORMULATION FOR USE WITH HIGH PERFORMANCE APPLICATIONS**

**AVAILABLE SIZES & COLOURS:**

SKU	Colour	Size	Format
43500	White	300 mL	Cartridge
43550	White	591 mL	Sausage

# NuFlex® 435 Hybrid Adhesive

## FLEXIBLE WATERTIGHT ADHESIVE

WATERTIGHT ON NEARLY ALL SUBSTRATES  
*PERFECT FOR ALL INTERIOR AND EXTERIOR BONDING*

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### FEATURES & TYPICAL USES:

#### Features:

- Excellent adhesion to a wide range of substrates
- High initial tack
- Remains permanently flexible
- Interior & exterior use
- Non-solvent based
- Non-corrosive
- Excellent resistance to weathering and UV
- Bonds to EPS and XPS foam without damage
- Shock, vibration, and impact resistant
- Low VOC / no odour
- Resistant to mold and mildew when fully cured

#### Basic uses include:

1. Creating a strong, flexible, watertight bond
2. Adhering cementitious substrates where flexibility is valued
3. Large panel bonding such as: cultured marble slabs, waterproof building boards for showers, etc.

#### Bonds To:

- Cove bases
- Cementitious board
- Flooring
- Stair treads & nosings
- Wood (including treated wood)
- Plastics, including PVC and Vinyl
- Metals (including galvanized steel)
- EPS and XPS foam
- Most roofing substrates
- Tile, Stone, Concrete & Brick, and other mineral based substrates
- Mirrors & glass

4. Glue down hardwood flooring applications
5. Adhering stone, and brick veneers



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CORROSIVE**

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**INTERIOR +  
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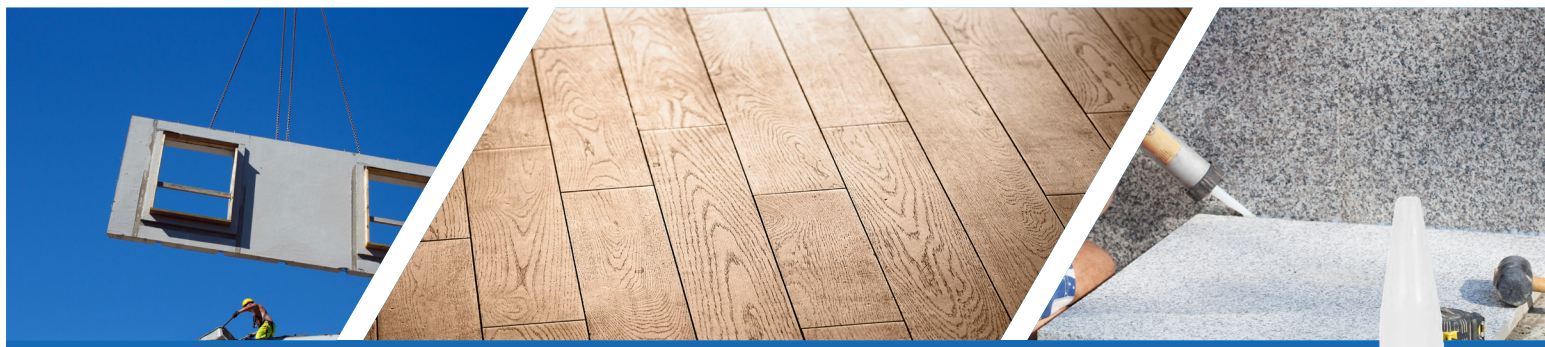


## TYPICAL PROPERTIES:

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
<b>As Supplied...</b>	
Type:	One part hybrid polymer
Cure method:	Moisture cure
ASTM C 1183 - Extrusion rate mL/minute:	1540 - 1550
Application temperature range (°C (°F)):	-6° to 40°C (21° to 104°F)
ASTM C 679 - Time: working (23°C (73°F) and 50% RH):	60 minutes
ASTM C 679 - Time: full cure: ½" x ¼" bead (23°C (73°F), 50% RH):	7 days
<b>As Cured - Physical - after 14 days at 25°C (77°F) and 50% relative humidity...</b>	
Service Temperature Range °C (°F):	-40° to 85° (-40° to 185°)
ASTM D 412 Die C - Tensile Strength, MPa (psi):	1.86 (270)
ASTM D 412 Die C - Modulus at 100% elongation, MPa	0.55 (80)
ASTM D 412 Die C - Elongation at break, percent:	400%
ASTM C 719 - Joint movement capability:	PASS - ± 35% movement
ASTM C 794 - Adhesion* in peel, pli (kg/cm) (min. 5 pli [0.89 kg/cm]):	Aluminium: 26.0 (4.64) Glass: 27.0 (4.82) Concrete: 26.0 (4.64)
ASTM C 794 - Adhesion* in peel, pli (kg/cm), after UV radiation through glass, (min. 5 pli [0.89 kg/cm]):	22.0 (3.93)
ASTM C 1246 - Weight Loss, after heat aging:	≤1%
ASTM C 1246 - Cracking and chalking, after heat aging:	None

# NuFlex® 435 FLEXIBLE WATERTIGHT HYBRID ADHESIVE



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### Basic uses include:

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5. Adhering stone, and brick veneers

## ■ 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.
- Adhesive thickness will increase at low temperatures.
- Rinse all surfaces [excluding plastics] with acetone.
- Rubber surfaces should be roughened with sandpaper, then wiped with acetone.
- Priming is not required

### Application:

1. Cut nozzle to desired bead size and cut inner seal.
2. Using a caulking gun, apply NuFlex® 435 to the bare surface of one of the substrates to be bonded.
3. If applicable, use mechanical support to hold materials in place until adhesive is fully cured

### Cure:

- Cure time is affected by humidity, degree of confinement, and cross-sectional thickness of the adhesive.
- Sections up to 3.2 mm (1/8") thick become rubbery solids in 24 hours at 25°C (77°F) at 50% relative humidity.
- There is approx. 60 minutes working time.

### Clean-up:

1. Uncured NuFlex® 435 Adhesive cannot be removed with water.
2. Remove the bulk of the uncured adhesive 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 sealant.
4. Clean surface with soap and water if possible.
5. Note: Glass surfaces are much more challenging to remove uncured adhesive from.



**NuFlex**  
SEALANTS

# NuFlex® 435 FLEXIBLE WATERTIGHT HYBRID ADHESIVE

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ASTM C 679 - Time: full cure: ½"x ¼" bead (23°C (73°F), 50% RH:	7 days

## SPECIFICATIONS:

**NuFlex 435 Hybrid Adhesive** meets:

- ASTM C 920, Type S, Grade NS, Class 35, Use NT, M, A, and O\*\*
- South Coast AQMD Rule 1168

\*Concrete was primed for water immersion as indicated in ASTM C 920. Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

## As Cured - Physical - after 14 days at 25°C (77°F) and 50% relative humidity...

Service Temperature Range °C (°F):	-40° to 85° (-40° to 185°)	
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**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:

- 435 is a non-priming adhesive, but special circumstances may require a primer
- Do not use below grade
- Uncured adhesive may permanently leave residue on glass, even if removed

## STORAGE AND SHELF LIFE:

- Shelf life is 12 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 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.

## MANUFACTURER INFORMATION:

NUCO Inc. 150 Curtis Drive T: 519-823-4994  
Guelph, ON N1K 1N5 F: 519-823-1099

TF: 1-800-853-3984  
E: sales@nucoinc.com

## LIMITED WARRANTY INFO:

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.

## AVAILABLE SIZES:

SKU	Size	Format
43500	296 mL	Cartridge
43550	591 mL	Sausage