NuFlex® 480 PREMIUM POLYURETHANE ADHESIVE

NuFlex® 480 Premium Polyurethane Construction Adhesive is a one component, 100% polyurethane based, VOC compliant adhesive. It can be used for interior or exterior projects and is three times as strong as conventional solvent based construction adhesives. The advanced formula produces a permanent overnight bond to almost any substrate in all climates.

FEATURES & TYPICAL USES

Features:

- VOC compliant
- Rigid, non-flexible when cured
- Superior adhesion strength
- Non-freezing & waterproof
- AFG-01 approved
- Low odour
- Versatile

Basic uses include:

1. Adhering most construction substrates to form a watertight bond.
2. Bonding where extra strength is needed.

Bonds To:

- Wood (dry, wet, or frozen)
- Metal
- Brick
- Concrete
- Ceramics
- Stone (marble, slate, etc.)
- Some mirrors (must be mechanically fastened)
- Most foam insulations:
  - EPS (Expanded Polystyrene Foam)
  - XPS (Extruded Polystyrene Foam)
  - Polyisocyanurate

SURFACE PREPARATION & APPLICATION:

Before Use: Read the label in its entirety.

Surface Preparation:

- Working surfaces to be bonded should be clean, dry and free from excessive oil, grease, water, dirt or any other material that may deter adhesion.
- Priming is not required.

Application:

1. Cut nozzle to desired bead size and cut inner seal.
2. Wear nitrile gloves during installation.
3. Using a caulking gun, apply NuFlex® 480 Premium Polyurethane Adhesive to the bare surface of one of the substrates to be bonded.
4. Use mechanical support to hold materials in place until adhesive is fully cured.

Cure:

- For a 1/4" bead of adhesive, there is a 20 minute working time.
- In a ventilated work area full cure should be achieved within 48 hours.

Clean-up:

1. Clean tools and excess uncured adhesive immediately with mineral spirits or acetone.

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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...	
Viscosity, cps:	Up to 1,000,000
Solids:	90
Working or open time, hours:	Up to 1
Weight, kg/L (lb/gal):	1.30 (10.8)
Flash point:	250°C (482°F)
Freeze/thaw stability:	Does not freeze
Shrinkage:	None
ASTM C 1299 - Service Temperature, °C	-40° to 121°C (-40° to 250°F)
Slab temperature:	10° to 38°C (50° to 100°F)
Curing, 24°C (75°F) at 50% R.H.: *Note: cure time varies with temperature, humidity, substrate porosity, and degree of confinement.*	Firm set: 1-2 hours Handleable: 16 hours Full cure: 48 hours
ASTM C 603 - Application Temperature, °C	4° to 38°C (40° to 100°F)
VOC content (CARB 310 Method):	45g/l, 3.57% w/w

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.

SPECIFICATIONS:

NuFlex® 480 meets the requirements of:

- Plywood Association Specification AFG-01, Adhesive for Gluing Plywood to Wood Framing.
- South Coast AQMD Rule 1168 Compliant
- FHA Bulletin UM-60.
- ASTM D3498.
- ASTM C-557.

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LIMITATIONS:

- NuFlex® 480 Premium Polyurethane Adhesive is not designed for continuous submersion.
- Adhesion may be limited on vinyl substrates - it may be favourable to test before using
- Not recommended for plastic tub surrounds, polyethylene and some polyethylene films that cover certain XPS or EPS foam insulation boards or panels and polypropylene surfaces.
  - Test adhesive on an out-of-the-way area to make sure it will not mark or attack the surface.
- Do not apply to polystyrene foam if temperature is 32°C (90°F) or greater

AVAILABLE SIZES & COLOURS:

SKU	*Size*	*Theoretical Yield:*
48000	296 mL	9.1 meters (30 linear feet)
48080	828 mL	26.2 meters (86 linear feet)

STORAGE AND SHELF LIFE:

- Shelf life is 12 months from the date of manufacture when stored in a clean, dry area.
- Store at 24°C (75°F) at 50% relative humidity.
- For best results, store the sealant in tightly closed containers when not in use.
- Store containers at room temperature for at least 24 hours before using.

CAUTION:

- Do not use near heat, sparks or flame.
- Use only with positive cross ventilation. Avoid breathing vapours.
- Do not swallow. Do not allow eye contact or prolonged skin contact.
- Uncured product can cause eye or skin irritation.

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