

456 Heavy Duty Adhesive – Low VOC

NuFlex
SEALANTS

CONSTRUCTION ADHESIVE TECHNICAL DATA SHEET

NuFlex® 456 Heavy Duty Construction Adhesive is a versatile LOW VOC professional strength adhesive that exceeds the APA's AFG-01 specification. It is designed for a wide range of construction applications including wet, frozen and treated lumber. It is also ideal for metal, brick, concrete, ceramics and most large panel-type substrates.

NuFlex® 456 Heavy Duty fills gaps and irregularities between materials and provides a more solid backup surface. It reduces the amount of nailing and helps eliminate squeaky floors. It also offers excellent water-resistance and remains permanently flexible.

FEATURES & TYPICAL USES:

Extremely versatile – bonds most common building materials. Ideal for various applications where aggressive adhesion is required.

SURFACE PREPARATION & APPLICATION:

Working Time: Approx. 20-30 minutes for a 1/4" bead. 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. Apply **NuFlex® 456 Heavy Duty Construction Adhesive** to only one of the surfaces to be bonded. **NOTE:** When bonding subfloors or wet, frozen and treated lumber, nail or screw as recommended by local building code. **Clean up:** Scrape off dried excess with a putty knife. Remove residue with mineral spirits or equivalent solvent. Follow solvent vendor's precautions when using solvents. **Note:** Test solvent on an out-of-the-way area to make sure it will not mark or attack the surface. **Limitations:** **NuFlex® 456 Heavy Duty Construction Adhesive** is not designed for continuous submersion or for use on polystyrene or polystyrene foams. For landscape & retaining wall applications, we recommend **NuFlex® 460 Landscape & Retaining Wall Adhesive**. For polystyrene foam, tub surrounds and most other plastics, we recommend **NuFlex® 454 General Purpose Construction Adhesive**.

CAUTION:

DANGER: EXTREMELY FLAMMABLE. VAPOUR HARMFUL. Contains acetone, hexane and toluene. Keep away from heat, sparks and flame. Use only with positive cross ventilation. Avoid breathing vapors. Do not swallow. Do not allow eye contact or prolonged skin contact. Uncured product can cause eye or skin irritation.

FIRST AID: If dizziness or other adverse effects are experienced, move to fresh air, call a physician if discomfort persists. If eye contact occurs, flush with water for 15 minutes; contact physician immediately. If swallowed, **DO NOT** induce vomiting; contact physician immediately. Wash skin contact areas with soap and water; contact physician if irritation persists. Prolonged or repeated overexposure to solvents in uncured product can cause central nervous system, peripheral nervous system, eye, skin, liver, kidney or respiratory system effects. For additional information, refer to Material Safety Data Sheet. **KEEP OUT OF THE REACH OF CHILDREN.**

MANUFACTURED BY:

NUCO INC.	T:	519.823.4994	TF:	1.800.853.3984
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Guelph, ON N1K 1N5				

FORM: 456_TDS.DOC

REV.: 7 DATE: 06/11



FEATURES:

- VOC Compliant.
- LEED Compliant.
- Superior adhesion strength.
- Exceeds AFG-01 specification.
- Freeze-thaw stable.
- Superior extreme temperature adhesive.
- Adheres to many substrates.

AVAILABLE SIZES & COLOUR:

- 296 mL (10 fl.oz.) cartridge
- Part No.: 45600
- 828 mL (28 fl.oz.) cartridge
- Part No.: 45680
- 12 cartridges per case
- 144 cases per skid (296 mL)
- 54 cases per skid (828 mL)



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SHELF-LIFE & STORAGE:

Shelf-life is 12 months from date of shipment from our plant when stored in clean, dry area. Store at room temperature.

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:	Synthetic elastomeric polymer
Application Temperature:	-18°C to 38°C (0°F to 100°F)
Service Temperature:	-29°C to 49°C (-20°F to 120°F)
Working Time, ¼" bead:	Approx. 20-30 minutes
Weight/gallon:	10.4 lbs
State:	Medium-viscosity mastic
Flashpoint:	Less than -18°C (0°F)
Freeze/thaw Stability:	Will not freeze
Solids:	78%
Viscosity:	130,000 cps
Calculated VOC (less exempt solvent):	< 50 g/L
Coverage, ¼" bead:	296mL = 30 linear feet 828mL = 86 linear feet

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.

SPECIFICATIONS:

NuFlex® 456, exceeds the requirements of the:

- APA's AFG-01,
- ASTM D3498,
- ASTM C-557
- HUD/FHA Use of Materials Bulletin #60.

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.

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