

454 General Purpose Adhesive

NuFlex
SEALANTS

CONSTRUCTION ADHESIVE TECHNICAL DATA SHEET

NuFlex® 454 General Purpose Construction Adhesive is a versatile; professional-strength, superior adhesive specifically designed for use on most construction materials. NuFlex® 454 offers similar advantages as conventional solvent-based adhesives, but with the added advantage of being more environmentally responsible and LEED compliant.

Ideal for interior and exterior applications, **NuFlex® 454** General Purpose provides excellent water-resistance and works extremely well in colder temperatures. It also offers a 20 minute working time, (¼" bead) to allow precise placement of materials.

TYPICAL USES:

NuFlex® 454 is ideal for the installation of polystyrene/ polyurethane foam insulation and moldings. It will bond to most building materials including wood, paneling, foamboard, corkboard, drywall, concrete, plywood and hardboard.

SURFACE PREPARATION & APPLICATION:

Working Surfaces: 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® 454** General Purpose Construction Adhesive to only one of the surfaces to be bonded. Apply material to panel perimeters and on 16-inch centres or a crisscross pattern to ensure maximum adhesion. Temporary bracing or nailing may be needed to improve contact until adhesive dries. Allow to cure overnight for maximum strength. **Clean-up:** Scrape off dried excess with 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® 454** General Purpose Construction Adhesive is not designed for continuous submersion. Do not apply to polystyrene foam if temperature is 32°C (90°F) or greater. Do not adhere one non porous material to another as this will slow or prevent drying. For plywood subfloors, use NuFlex 458 Subfloor adhesive.

CAUTION:

DANGER: EXTREMELY FLAMMABLE. VAPOR HARMFUL. Contains methyl acetate, diethylene oximide and residual vinyl acetate. Keep away from heat, sparks and 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. 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.

First Aid: If dizziness or other adverse effects are experienced, move to fresh air; contact physician if discomfort persists. If eye contact occurs, flush eyes 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. 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
150 Curtis Drive	F:	519.823.1099	E:	sales@nucoinc.com
Guelph, ON N1K 1N5				

FORM: 454_TDS.DOC

REV.: 6 DATE: 05/11



FEATURES:

- Excellent adhesion strength.
- 20 minute working time.
- Freeze-thaw stable.
- Waterproof.
- Bridges gaps.
- **VOC-compliant.**
- Safe for foam insulation.
- Minimizes need for bracing.

AVAILABLE SIZES & COLOUR:

- 296 mL (10 fl.oz.) cartridge
- Part No.: 45400
- 144 cases per pallet
- 828 mL (28 fl.oz.) cartridge
- Part No.: 45480
- 54 cases per pallet
- 12 cartridges per case



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YIELDS:

Size	1/8" (3.2mm)	1/4" (6.3mm)	3/8" (9.5mm)
10oz	123 ft.	30 ft.	13 ft.
	37.5 m	9.1 m	4 m
28oz	343 ft.	86 ft.	38 ft.
	104.6 m	26.2 m	11.6 m

- Yields are based on theoretical calculations for comparison purposes only & will vary depending on ambient conditions and particular applications.

SPECIFICATIONS:

NuFlex® 454, exceeds:

- Performance requirements of the ASTM C-557 specification.

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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SHELF-LIFE & STORAGE:

Shelf-life is 12 months from date of shipment from our plant when stored in a clean, dry area. Store below 75°C (23.8°F) and keep container tightly sealed when not in use.

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:	Proprietary Synthetic Polymer
Service Temperature:	-29°C to 49°C (-20°F to 120°F)
Working Time:	Approx. 20 minutes for 1/4" bead.
State:	Thixotropic Medium Viscosity Mastic
Calculated VOC:	< 50 g/L
Solids:	71%
Viscosity:	150,000 cps
Weight/gallon:	11.2 lbs
Flashpoint:	-10°C (14°F)
Application Temperature:	4°C to 37°C (40°F to 100°F)
Freeze/Thaw Stability:	Stable

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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