

# PF-50 Straw Foam (LOW EXPANSION)

ALL WEATHER

**ULTRASEAL®**  
PU FOAMS  
TECHNICAL DATA SHEET

Page 1 of 2

UltraSeal® Straw Foam is an All Weather, low expansion, one-component polyurethane foam that is UL classified and designed for use in extreme temperatures and low humidity conditions. The PF-50 All Weather is to be used with a straw dispenser. It is ideal for general sealing of gaps, holes and crevices. UltraSeal® PF-50 All Weather is a foam system that can be used without a gun dispenser.

## FEATURES & TYPICAL USES:

UltraSeal® PF-50 All Weather is ideal for applications in EXTREME temperatures. It is a one component low expansion foam that is UL classified. It is the ideal product to seal, fill, & insulate around joints, beneath base plates, mud sills, top plate penetrations, corner joints, T-joints, exterior cracks, around utility panels, pipes and duct penetrations.

## SURFACE PREPARATION & APPLICATION:

Surfaces should be free of dust, oil, grease, frost, and loose debris which may impair bond. Dampness will not impair bond. For maximum yield the temperature of the UltraSeal® PF-50 All Weather container should be 20°C (68°F). Minimum application temperature is -18°C (-0.4°F). Colder temperatures lengthen curing time but will not affect the UltraSeal® PF-50 All Weather properties when fully cured. When applying Ultra Seal PF-50 follow the instructions on the container. Fill gaps, cracks and holes with the sealant making allowance for post expansion (fill cavities to 30% of volume). Multiple layers may be necessary in large cavities, with successive layers being allowed to expand and cure before the next layer is applied. Curing may be accelerated by spray misting the surrounding surface with water prior to application of the foam.

Ultra Seal PF-50 All Weather Sealant is water resistant and will not harm electrical wire insulations, Romex, rubber, PVC, polyethylene or other plastic (i.e.PEX, CPVC). It is approved for use around wires, plumbing penetrations, etc. When cured, polyurethane foam is permanent, non-toxic, chemically inert, non-reactive and stable for an indefinite period of time. Cured foam should be protected against UV rays (i.e. sunlight) by painting or staining to prevent long term discoloration or degradation.

## CAUTION:

The propellant is extremely flammable during dispensing and curing. Provide cross-ventilation to remove any buildup of vapours. Contents under pressure. Do not place in hot water or near radiators, stoves or other sources of heat. Do not puncture or incinerate container or store at temperatures over 49°C (120°F). **Keep out of reach of children.** Do not leave container in a closed area such as a motor vehicle, especially in the summer heat. Foam produced is combustible and may constitute a fire hazard if improperly used. **Important:** Use only in well ventilated areas. Wear impervious gloves, eye protection, and protective clothing when using. Read all instructions and safety information (MSDS) prior to use of any product. **First Aid:** Non-toxic under normal conditions. Treat as a mild irritant to skin. Flush eyes with water and see a physician. Product contains polymeric diisocyanate.

## SPECIFICATIONS:

UltraSeal® PF-50 All Weather meets Underwriters Laboratories Inc. Caulking and Sealants applied to inorganic reinforced cement board + Flame spread 25, Smoke Developed 50. ODP (ozone depletion potentials): contains non-ozone depleting hydrocarbon propellant; VOC Content: Contains less than 20% by weight VOC's.

## 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: PF-50-AllWeather\_TDS.DOC

REV.: 7 DATE: 03/15



## FEATURES:

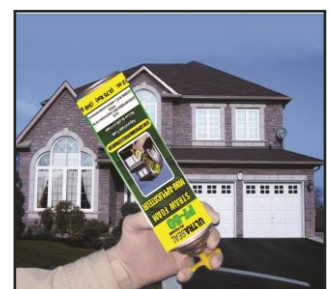
- Extreme climate foam (-18°C).
- A truly low expansion foam.
- Closed cell structure reduces unwanted air & insect infiltration.
- Helps reduce energy consumption.
- Comes complete with a straw applicator.

## AVAILABLE SIZES & COLOUR:

- 12oz (340g) can
- 12 cans / case; 75 cases / skid
- 24oz. (680g) can
- 12 cans / case; 64 cases / skid

## 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:

UltraSeal<sup>®</sup> PF-50 All Weather is an aerosol material and must be kept below 49°C (120°F). **Notice to purchaser:** UltraSeal<sup>®</sup> PF-50 is guaranteed to conform to product specifications, if used by the expiry date imprinted on each aerosol container (12 months after manufacture).

## 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
Application temperature:	-18°C to 46°C (0°F to 115°F)
Density:	1.1 lbs./ft <sup>3</sup> (17.6 kg/m <sup>3</sup> )
R-Factor (aged):	4 – 5 per inch (.03 w/m.k.) typically
Close Cell Content:	(ASTM D-2856) > 70%
Tack-Free Time 21°C (70°F) and 40% R.H.:	Approx. 10 minutes
Cuttable (1" Bead at room temp.):	<1 hour
Cure Time:	12 - 24 hours
Air Barrier Properties: (ASTM E-283)	
@ 6.24 psf (300 Pa)	<0.01 cfm/ft <sup>2</sup> (0.05 L/s/m <sup>2</sup> )
@ 1.57 psf (75 Pa)	<0.0025 cfm/ft <sup>2</sup> (0.0125 L/s/m <sup>2</sup> )

## 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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## YIELDS:

Size	1/4" (6.3mm)	3/8" (9.5mm)	1/2" (12.7mm)
12oz	1,996 ft.	877 ft.	499 ft.
<a href="http://www.Ultra-SealFoams.com">www.Ultra-SealFoams.com</a>			
24oz	3,992 ft.	1,771 ft.	998 ft.
	1,217 m	541 m	304 m

## Volume:

- 12oz. = 19 L (0.68ft<sup>3</sup>)
- 24oz. = 39 L (1.36ft<sup>3</sup>)
- Yields are based on theoretical calculations for comparison purposes only & will vary depending on ambient conditions and particular applications.

## APPROVALS & STANDARDS:

- UL Classified – File #R13919 Caulking & Sealants, ASTM E-84 (12.5%), Flame Spread 25 / Smoke Developed 50
- ODP (Ozone Depletion Potential): Contains non-ozone depleting hydrocarbon propellant
- VOC Content: Contains less than 20% by weight VOC's