LionFoam+ All Seasons LPF0004

Product Description

LionFoam+ All Seasons LPF0004 is a single-component, low-expansion polyurethane foam designed for gun application. It is formulated with CFC- and HCFC-free propellants, making it ozone-friendly.

This foam can be used across a wide temperature range, from -25 °C to +49 °C, provided that the cartridge temperature is maintained between 5 °C and 35 °C for optimal performance.

Characteristics

- Excellent dimensional stability: No shrinkage or post-expansion
- High filling yield
- Exceptional adhesion to most materials (except PE/PP)
- Very good thermal and acoustic insulation properties
- Ideal for mounting applications
- Usable from -25 °C
- Does not sag at low temperatures
- Low, controlled expansion
- Freon-free: Ozone-friendly and low greenhouse impact
- Not UV-resistant: Requires protection if exposed for extended periods

Applications

- Window and door installation
- Filling cavities and joints
- Installing and repairing ridge tiles
- Applying soundproofing layers
- Enhancing insulation in refrigeration systems
- Insulating around pipes and electrical cables

Packaging

Color: Champagne
Packaging: 750 ml aerosol can (net volume)

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Shelf Life

18 months in its unopened packaging, stored in a cool, dry place (between 5 °C and 25 °C). Always store in an upright position

Instructions for Use

- Shake the aerosol vigorously for at least 30 seconds or perform at least 20 strong shakes before use.
- Attach the aerosol can to the application gun.
- Lightly moisten the clean, grease-free surface to accelerate foam curing.
- Fill cavities to approximately 65%, as the foam will continue to expand after application.
- Shake the aerosol regularly during use to ensure consistent performance.
- For multi-layer applications, moisten the surface between each layer.
- Uncured foam can be cleaned with acetone.

Aerosol temperature:	+ 5 °C to +35 °C
Ambient temperature:	- 25 °C to +49 °C (+5 °C to +30 °C recommended)
Surface temperature:	- 25 °C to +35 °C (+10 °C to +25 °C recommended)

Notes

- Lightly moistening the surface improves adhesion, increases yield, and accelerates foam curing. For filling large volumes, it is recommended to apply the foam in multiple layers, moistening between each application. For unusual substrates, a preliminary adhesion test is advised.

- Cured polyurethane foam is not UV-resistant. It must be protected from prolonged exposure to sunlight using a suitable coating such as paint, sealant (silicone, polyurethane, acrylic, or hybrid polymer), or any other appropriate surface treatment.

Norms and Certificates

- ASTM C-1620
- ASTM E-84
- UL 723
- UL 1715

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Foam Yield and Curing Time

The can temperature must be above 5 °C

Ambient Temperature	20 °C	0 °C	-10 °C	-25 °C
Approximate Yield (Liters)	48	32	27	24
Curing Time (Hours)	1.5	3-5	8-10	10-12
Approximate Meters @ ¼" Bead	1531	788	690	592

Technical Specifications

Base	**Polyuréthane**
Consistency	Stable, thixotropic foam
Curing System	Moisture-curing (reacts with ambient humidity)
Skin Formation Time (at 20 °C / 65% R.H.)	8 minutes
Cutting Time (at 20°C/65% R.H.)	Tack-free after 20-25 minutes
Curing Time	See notes
Yield	48 liters
Yield (ASTM C-1536) (per 750 ml can)	1521 m @ ¼" (6.4 mm) dia. bead
Post-Cure Shrinkage	None
Post-Cure Expansion	None
Cell Structure	70-80% closed cells
Specific Gravity	23 kg/m^3 (extruded, fully cured)
Temperature Resistance	-40 °C to +90 °C (cured)
Color	Champagne
Fire Rating (DIN 4102 Part 2)	B3
Insulation Factor	4.1 for 25 mm
Shear Strength (ASTM C-273)	60 kPa
Compressive Strength (ASTM D-1621)	30 kPa
Tensile Strength	120 kPa
Water Absorption	1% Vol

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Safety Recommendations

Follow standard workplace hygiene practices. Wear gloves and safety goggles. Remove cured foam mechanically – never burn it. Refer to the product label and safety data sheet (SDS) for detailed information. When spraying (e.g., using a compressor), additional safety measures may be required. Ensure adequate ventilation in enclosed spaces.