PRODUCT SHEET
ProOne Flex Foam
Flexible high insulating polyurethane foam
Last revision: 01-05-2023

Product Description
ProOne Flex Foam is a professional flexible 1-component gun foam based on polyurethane. The permanent flexibility creates a sustainable and highly insulating (airtight) seal. ProOne Flex Foam is tested according to EN1026 for air loss at 1050 Pa. ProOne Flex Foam has excellent adhesion, durable sealing function with high insulation values. ProOne Flex Foam offers an A+ label for VOC content.

Benefits
– Extreme low air loss, most air tight foam available on the market
– Flexible
– Tested to 1050 Pa
– Provides best sound reduction
– High yield

Applications
ProOne Flex Foam is specifically developed for creating airtight and thermally insulated joints around window frames. Also suitable in construction, partition walls, ceiling and floor joints, surface penetration of pipes and tubes through walls and floors. Ideal for use in Passive Housing and energy neutral buildings.

Directions Of Use
Canister temperature: +5°C to +30°C (recommended +15°C to +25°C).
Application temperature (applies to environment and substrates): -15°C to +35°C (recommended +15°C to +25°C).

Hold the canister with the valve turned upwards and affix an applicator gun with NBS-thread to the canister. We recommend a NBS Gold (see instructions in the gun box). Shake the canister vigorously prior to use at least 20 times. Turn canister upside down and apply the foam. To regulate the flow of the foam, loosen the valve at the back of the handle. Fill the cavity for 70%, in case of low humidity, lightly spray the foam with water. The foam will expand to fill the rest. When fixing window frames, use spacers and wedges to hold the frame in place for approximately 24 hours until the foam is fully cured.

Protect eyes, wear gloves and protective gear. Floor-covering and furniture to be covered with paper or plastic foil. Joints wider and deeper than 4 cm should be filled in multiple layers. Wait 15-30 minutes between applications. Before each application lightly spray with water.

Only use in well ventilated areas. Store canister upright between +5°C and +25°C. Pressurized container! Protect from sunlight and do not expose to temperatures exceeding + 50°C. Do not pierce or burn, even after use. Contains flammable propellants. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. No smoking.

Technical Specifications

Application temperature		-5°C to +35°C
Base		Polyurethane
Closed cells		± 70%
Curing time		80-100 minutes
Cutting time	EN 17333-3	20-40 minutes
Density		20-25 kg/m^3
Dimensional stability		-5% < DS < 0%
Fire behaviour		B3
Joint sound insulation		63 dB
Movement Capability		25%
Permeability	EN 1026	a ≤ 0,001 dm^3/m.s. @ 1050 Pa
Permeability test		Up to 1050 Pa
Tack free time	EN 17333-3	6-10 minutes
Temperature resistance		-40°C to +90°C
Thermal conductivity		30-35 mW/m.K
Total foam yield	EN 17333-1	750 ml = 30-35 liter
Water absorption wp		0,15 kg/m^2
Water vapour diffusion resistance factor		36 μ
Water vapour diffusion sd		1,3 m

These are typical values

Limitations
– Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
– Not suitable for permanent water load. Not suitable for use (eg filling) in cavities with insufficient moisture

Surface Preparations and Finishing
Substrates must be clean and free of ice, dust, oil and grease. It is important to moisten substrates slightly before use as this improves adhesion and finished cell structure of the foam (only at temperatures above 0°C).

Paintability
Can be painted or covered with sealant/plaster when fully cured.

Cleaning
Fresh foam can be removed immediately with Universal PU Cleaner. After curing surplus foam can be removed with a knife or spatula and the foam surface can be finished.

Shelf Life
If kept stored in a cool, dry place, in unopened original packaging, between +5°C and +25°C, shelf life is up to 12 months from production date. Store the canisters in an upright position.

Certifications
EN 12086 Water vapour transmission
EN 1609 Water vapour patial immersion
VOC emissions ISO 16000
EMICODE EC1 Plus – very low emission
ISO 717-1 Joint Sound Insulation

Health & Safety
Product Safety Data Sheet must be read and understood before use. These are available on request and via our websites.

Warranty & Guarantee
ProOne warrants that its product complies, within its shelf life, to its specification.

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ProOne
www.pro-one.eu

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