



# Den Braven

## Technical Data Sheet

### Zwaluw Flex-Foam

Flexible high insulating polyurethane foam



#### Product Description

Zwaluw Flex-Foam is tested and approved by a notified body (0960) as a 1-component flexible insulation polyurethane foam with a high yield. It is specifically developed to seal and fill joints, seams and connections. Through its unique formulation Zwaluw Flex-Foam can also be used at low temperatures. Zwaluw Flex-Foam has been tested according to the directives of the NEN-EN 1026: 2000 to determine the air loss at a pressure up to 1050 Pa. The air loss is 25 times lower than prescribed by the standard. Zwaluw Flex-Foam is suitable for use in details in passive houses and energy neutral homes and buildings. Zwaluw Flex-Foam is part of the product portfolio Sustainable Airtight Building Solutions. These products are tested on thermal insulation, driving rain and air loss. Zwaluw Flex-Foam is part of the product portfolio Sustainable Airtight Building Solutions. These products are tested on thermal insulation, rain tightness and air loss. Properly applied, these products contribute to energy savings of a building and are in close proximity with concepts such as passive and energy neutral houses.

#### Benefits

- Tested to 1050 Pa
- Extreme low air loss
- Provides best sound reduction
- High yield
- For use in colder climates (to -15°C)
- B3

#### Applications

Zwaluw Flex-Foam was specially developed for airtight and thermally insulated joints around window frames and in construction. Also for use in partition walls, ceiling and floor joints, surface penetration of pipes and tubes through walls and floors. The foam has excellent adhesion to concrete, brick, stone, plaster, wood, metal and many plastics like EPS and XPS, rigid PU foam and uPVC. Ideally suitable for the connection between plaster blocks and limestone bricks.

#### 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. For more information see Technical Bulletins in the Knowledge Base on our website [www.denbraven.com](http://www.denbraven.com).



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#### Additional information

Application temperature		-15°C to +35°C
Base		Polyurethane
Closed cells		± 70%
Curing time		80-100 minutes
Cutting time	EN 17333-3	20-40 minutes
Density		20-27 kg/m3
Fire behaviour		B3
Tack free time	EN 17333-3	8-12 minutes
Temperature resistance		-40°C to +90°C
Thermal conductivity		30-35 mW/m.K
Total foam yield	EN 17333-1	750 ml = 35-40 liter

*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 dust, oil and grease. It is important to moisten substrates slightly before use as this improves adhesion and finished cell structure of the foam.

#### Paintability

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

#### Cleaning

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

#### Colour(s)

- Yellow

#### Packaging



- Can

*For product specifications, please refer to the Product Detail Page*

#### 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 18 months from production date. Store the canisters in an upright position.

#### Certifications

	DIN 12354-3 Joint Sound Insulation DIN 18542 Air Permeability EN 12664 - Thermal Conductivity
	A+ French VOC Regulation
	EMICODE EC1 Plus – very low emission

#### Health & Safety

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

#### Warranty & Guarantee

Bostik warrants that its product complies, within its shelf life, to its specification.

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