

ADFOAM FLEX 1865-1

Flexible gun grade polyurethane insulating foam

DESCRIPTION

ADFOAM FLEX 1865-1 is a one-component, self-expanding, ready to use flexible polyurethane foam. It is used for insulation on windows, doors, curtain wall perimeters or any others gaps that need to be filled. It contains CFC-free propellants, which are completely harmless to the ozone layer. ADFOAM FLEX 1865-1 has a minimum expansion after application (less than 50%) and is therefore very economical to use. This foam is very elastic and provides acoustic insulation. It adheres to most common construction materials and can also be used in plumbing and electrical applications.

PHYSICAL PROPERTIES

Tests	Standard	Results
Base		Polyurethane
Color		White
Consistency		Stable foam
Curing system		Moisture cure
Mechanical properties		Flexible
Tack Free Time [20°C (68°F) / 65% H.R.]	ASTM C1620	4 – 8 minutes (1 cm/0.4" diameter)
Cutting time [20°C (68°F) / 65% H.R.]	ASTM C1620	20 – 45 minutes (1 cm/0.4" diameter)
Curing time [20°C (68°F) / 65% H.R.]		2 – 4 hours
Yield for 750ml / 24 oz		30 to 45 liters / 1830 to 2441 in ³ (cured foam) Note that the yield will vary according to can and ambient temperature
Skrinkage		< 3%
Specific gravity	ASTM D1622	18 – 25 kg/m ³
Temperature resistance		-40°C (-40°F) to 80°C (176°F) when cured
Fire class	DIN 4102-1	B3
Shear strength	FEICA TM 1012 :2013	0.058 MPa
Compression strength	FEICA 1011:2015	22.3 kPa (10% compressed)
Tensile strength	FEICA 1018:2015	0.065 MPa
Elongation at break		36% – 38%
Water absorption	DIN 53428	Maximum 1% (Volume)
Optimum can temperature		5°C (41°F) to 30°C (86°F)
Application temperature		-2°C (28°F) to 30°C (86°F)
V.O.C.		< 2 g/L

PRODUCT CHARACTERISTICS

- High elastic recovery ratio
- Overcomes extreme physical movements without structural deformation
- Shock and impact absorption
- Excellent adhesion and filling capacity and high thermal and acoustical insulation
- Economical consumption thanks to precise application
- High yield up to 45 liters depending on temperature and humidity

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- Mould proof, waterproof and paintable

APPLICATIONS

- Fixing and insulating of window and door frames
- Soundproof screen production
- Vibrating constructions
- Application of soundproofing layer on industrial equipment
- Reduction of noise transmission during use as fixing foam
- Filling and sealing gaps, joints, and cavities
- Filling penetrations in walls
- Filling all joints in roof construction
- Enhancing thermal insulation in heating/cooling systems
- Insulating electrical outlets and water pipes

DIRECTIONS FOR USE

All surfaces must be free of dust, oil, grease, frost, or any other contaminant. Clean all surfaces with ADFOAM CLEANER 500. Let evaporate 20 minutes prior to ADFOAM FLEX 1865-1 application. Shake the aerosol can for at least 30 seconds. Fit the gun on the adapter. Moisten surfaces with a water spray prior to application (only when temperature > 0°C). During installation, doors and windows should be leveled, squared, and mechanically fastened to avoid distortion of the frame. Fill holes and cavities at 50% as the foam will expand. The size of a foam bead should be between 1/8 and 3 inches. Repeat shaking regularly during application. If you must work in layers repeat moistening after each layer (only when temperature > 0°C). Fresh foam can be removed using ADFOAM CLEANER 500. Cured foam can only be removed mechanically. For later utilization, when there is still some foam inside the can, keep the can screwed on the gun. Cured foam may be trimmed or sanded. Cured foam must be protected from UVB radiation by painting or applying a top layer of sealant (silicone or hybrid sealant). Application temperature: -2°C (28°F) to 30°C (86°F) Optimal can temperature 20°C (68°F). Cans should be kept at room temperature for at least 12 hours before the application

PACKAGING

750ml / 26 oz aerosol can (12 per box)

STORAGE AND SHELF LIFE

12 months in unopened packaging in a cool and dry storage place at temperatures between 10°C (50°F) and 25°C (77°F). High humidity and storage below or above these temperatures will shorten shelf life. Always store and transport can with the valve pointed upwards.

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Apply the usual industrial hygiene. Wear gloves and safety goggles. Remove cured foam by mechanical means only, never burn away. Consult the SDS (Safety Data Sheet) for more information. If you need additional information, do not hesitate to contact your technical representative. Always test product on your application prior to use. For industrial use only.

IMPORTANT**READ CAREFULLY**

The information and recommendations contained herein are derived from our research and information from other reliable sources. This data applies only to our products and not when used with other products. We believe in the reliability of our information. However, no guarantee is offered to that effect. It is the responsibility of the buyer to verify this data according to their own operating conditions to ensure that they conform to the purpose for which the product is intended, even before using it.

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