

ADFOAM 1815

Low expansion polyurethane winterfoam for doors, windows and curtain walls

DESCRIPTION

ADFOAM 1815 is a one-component, self-expanding, straw grade ready to use polyurethane foam. It is used for insulation on windows, doors, curtain wall perimeters or any others gaps that need to be filled. It can be used as low as -15°C. ADFOAM 1815 meets CAN/ULC S102 and ASTM E84 (UL R26654). It contains CFC-free propellants, which are completely harmless to the ozone layer. ADFOAM 1815 reaches R5 (thermal resistance) per square inch insulation rate. It adheres to most common construction materials and can also be used in plumbing and electrical applications.

PHYSICAL PROPERTIES

Base	Single component polyurethane
Color	Vert
Consistency	Stable foam, thixotropic
Curing system	Moisture cure
Drying time at 20°C (68°F) and 65% RH	Dust-free after 20-25 minutes
Skin formation time at 20°C (68°C) and 65% HR	±8 minutes
Curing rate	See chart below
Yield	See chart below
Shrink	None
Post expansion	None
Cellular Structure	70-80% closed cell
Specific gravity	±24kg/m ³ (extruded, fully cured)
Temperature resistance	-40°C to +90°C when cured
Fire Class (DIN 4102 part 2)	B3
Insulation factor	33mW/m. K
Shear strength (DIN 53427)	17 N/cm ²
Pressure strength (DIN 53421)	3 N/cm ²
Bowing strength (DIN 53423)	7 N/cm ²
Water absorption (DIN 53429)	Approximately 1% Vol
V.O.C.	173 g/L

PRODUCT CHARACTERISTICS

- Minimal expansion, will not cause any distortion
- Excellent adhesion on most substrates (except Teflon, PE and PP)
- High thermal and acoustical insulation
- Very good filling capacities
- Excellent mounting capacities
- Excellent stability (no shrink or post-expansion)
- Does not slump at low temperature
- Can be applied at low temperatures
- Very precise application due to the foam gun system

ADFOAM 1815**Low expansion polyurethane winterfoam for doors, windows and curtain walls****APPLICATIONS**

- Installation of window and doorframe
- Filling cavity
- Sealing of all openings in roof construction
- Creation of a soundproof screen
- Mounting and sealing of window and doorframe
- Connecting insulation materials and rood constructions
- Improving thermal insulation in cooling system

SPÉCIFICATIONS

Meet norm CAN/ULC S102 (Canada).



UL approved No. R26654

Caulking and sealants surface burning characteristics 19HU applied to inorganic reinforced cement board.

Flame spread : 30

Smoke developed : 50

Meet norm ASTM E84 (USA).



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Caulking and sealants surface burning characteristics 19HU applied to inorganic reinforced cement board.

Propagation de la flamme : 15

Développement de fumée : 35

ADFOAM 1815**Low expansion polyurethane winterfoam for doors, windows and curtain walls****METHOD OF 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 1815 application. Shake the aerosol can for at least 30 seconds. Put the adapter (straw) on the can. Moisten surfaces with a water spray prior to application (only when temperature > 0°C). Fill holes and cavities at 65% 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 have to work in layers repeat moistening after each layer (only when temperature >0°C). Fresh foam can be removed using ADFOAM CLEANER 500 gun cleaner. Cured foam can only be removed mechanically. 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: -15°C (5°F) to 35°C (95°F).

YIELD AND CURING TIME

Temperature of the can: 18°C

Temperature	20°C	0°C	-5°C	-10°C
Cured foam volume	± 35 liters ± 2136 in ³	± 30 liters ± 1830 in ³	± 28 liters ± 1709 in ³	± 24 liters ± 1465 in ³
Curing time in joint of 3cm x 3cm	1 hour	3 to 6 hours	6 to 9 hours	9 to 12 hours

PACKAGING

Can of 750ml

SHELF LIFE

12 months from date of production, in an unopened packaging in a cool and dry storage place between +5°C and +25°C. Always store can with the valve pointed upwards.

HANDELING AND SAFETY

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

ADFOAM 1815**Low expansion polyurethane winterfoam for doors, windows and curtain walls****IMPORTANT****READ CAREFULLY**

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