

## **ADFOAM ULTIMATE 1815**

### **Straw grade polyurethane insulating foam -15°C**

#### **DESCRIPTION**

ADFOAM ULTIMATE 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 other gaps that need to be filled. It can be used as low as -15°C. ADFOAM ULTIMATE 1815 meets CAN/ULC S102 and ASTM E84 (UL R26654). It contains CFC-free propellants, which are completely harmless to the ozone layer. ADFOAM ULTIMATE 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 <sup>3</sup> (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 <sup>2</sup>                         |
| Pressure strength (DIN 53421)                 | 3 N/cm <sup>2</sup>                          |
| Bowing strength (DIN 53423)                   | 7 N/cm <sup>2</sup>                          |
| 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

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#### **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**

##### **CAN/ULC S102**



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

Flame spread: 30

Smoke developed: 50

##### **ASTM E84**



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

Flame spread: 15

Smoke developed: 35

#### **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 ULTIMATE 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). During installation, doors and windows should be leveled, squared, and mechanically fastened to avoid distortion of the frame. 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 must work in layers repeat moistening after each layer (only when temperature >0°C). Fresh

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foam can be removed using ADFOAM CLEANER 500. 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<br>± 2136 in <sup>3</sup> | ± 30 liters<br>± 1830 in <sup>3</sup> | ± 28 liters<br>± 1709 in <sup>3</sup> | ± 24 liters<br>± 1465 in <sup>3</sup> |
| Curing time in joint of 3cm x 3cm | 1 hour                                | 3 to 6 hours                          | 6 to 9 hours                          | 9 to 12 hours                         |

**PACKAGING**

750ml aerosol can (12 per box)

**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.

**HANDLING AND SAFETY**

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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