

# Product Data Sheet

## Astro FR-EC Economy Foam

Revision 3 - July 2018



## Astro FR-EC Economy Foam

### Fire Rated Foam

- Ready to use PU foam in a 750ml can.
- Fire retardant up to 240 minutes.
- Tested to BS 476:Part 20, EN1366-4.
- Efficient seal against smoke and gas.
- Excellent adhesion on most construction substrates.
- High bonding strength.
- Very good filling characteristics.
- Excellent stability: no shrink or post expansion.
- Cured foam can be overpainted.



### Product Description

**Note: This product is fire rated but is not intumescent.**

A one-component, self-expanding, ready to use polyurethane foam that uses 'green' propellants, harmless to the ozone layer and without greenhouse gas effects. It has a fire rating of up to 240 minutes (tested according EN1366-4).

Typical uses include:

Fire retardant installation of window- and doorframes.

Fire- and smoke retardant sealing of connections between partition walls, ceilings and floors

Filling of cavities

Use for all applications where fire retardant characteristics are required or desirable such as:

- sealing of all openings in roof constructions
- sealing of cable- and pipe penetrations
- bonding of insulation materials
- application of sound-deadening layers
- improving thermal insulation

### Properties, Specification & Availability

|                                   |   |
|-----------------------------------|---|
| Base                              | Polyurethane  |
| Consistency                       | Stable foam   |
| Curing system                     | Moisture-cure   |
| Skin formation - (20°C/65 % R.H.) | Ca 8 minutes  |
| Drying time - (20°C/65 % R.H.)    | Tackfree after 25min.                                   |
| Curing rate - (20°C/65 % R.H.)    | 2 hr for a 30 mm bead                                   |
| Yield                             | 1000 ml yields 25-40 Lcured foam when extruded in beads |
| Shrink                            | None  |
| Postexpansion                     | None  |
| Colour                            | Light Red   |
| Cellular structure                | >70 % closed cells                                      |
| Specific gravity                  | Ca. 25 kg/m <sup>3</sup> extruded, fully cured          |
| Temperature resistance            | -40°C to +90°C when cured                               |

### Product Availability

Sold in 750 ml pressurised canisters individually or boxes of 12.

Shelf life is 9 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25

| Product Code | Product Description      | Size  |
|--------------|--------------------------|-------|
| AFFRECFOAM   | Astro FR-EC Economy Foam | 750ml |

### To Order & Specify

Please contact us and quote the following information - Quantity / Product Code / Product Description / sizes  
 Typical example:- 10 / AFIMLST / Astro LST Mastic / 310ml

>> Tel: [01329 844 500](tel:01329844500) or >> Email: [sales@astroflame.com](mailto:sales@astroflame.com)

### Application

Shake the aerosol can for at least 20 seconds.

Moisten surfaces with a water sprayer prior to application.

Fill holes and cavities for 65 %, as the foam will expand.

Repeat shaking regularly during application.

If you have to work in layers repeat moistening after each layer.

Fresh foam can be removed using Soudal Foamcleaner or acetone. Cured foam can only be removed mechanically.

Working temperature 5°C to 40°C. (20°C-25°C recommended)

Cured PU-foam must be protected from UV radiation by painting or applying a top layer of sealant (silicone, MS Polymer, acrylic and PU sealant)

### Fire Test or Assessment Reports

- Test Report 9279 – University Ghent to NBN 713.020, EN 1366-4.
- BS 476:Part 20 – Warrington Fire Research Report 113610.
- France : CSTB Rapport D’Essai RS00-067.
- Italy : CSI Report 1125RF.
- Australia WFRA Report 45717 to AS1530.4 and AS 4072.1.
- Various applications with fire doors.
- Various Applications in combination with sealants.

### Test Results: Test Report 9297C - University of Ghent\*

| Wall Thickness | Joint Dimensions            | Backing Material | Flame resistance in minutes   |
|----------------|-----------------------------|------------------|-------------------------------|
| 200mm          | Width: 11mm<br>Depth: 200mm | None             | 229 min<br>Fire Rating EI 180 |
| 200mm          | Width: 41mm<br>Depth: 200mm | None             | 110 min<br>Fire Rating EI 90  |
| 100mm          | Width: 30mm<br>Depth: 100mm | None             | 50 min<br>Fire Rating EI 45   |
| 100mm          | Width: 10mm<br>Depth: 100mm | None             | 103 min<br>Fire Rating EI 90  |

### Test Results: Test Report 13492 - University of Ghent\*

| Wall Thickness | Joint Dimensions            | Backing Material | Flame resistance in minutes   |
|----------------|-----------------------------|------------------|-------------------------------|
| 200mm          | Width: 10mm<br>Depth: 200mm | None             | 240 min<br>Fire Rating EI 240 |
| 200mm          | Width: 30mm<br>Depth: 200mm | None             | 158 min<br>Fire Rating EI 120 |

### Installation

Please see installation sheet - This can be requested from our sales team T: [01329 844 500](tel:01329844500)  
or E: [sales@astroflame.com](mailto:sales@astroflame.com)

### Health and Safety

Please see (SDS) Safety Data sheet - This can be requested from our sales team T: [01329 844 500](tel:01329844500)  
or E: [sales@astroflame.com](mailto:sales@astroflame.com)

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