



Product Data Sheet

ASMACO GOLD UNIVERSAL MULTIFOAM FIRE RETARDANT B2 High-Quality Fire-Retardant Foam Complies EN 1366-4:2021

Description: ASMACO GOLD UNIVERSAL MULTIFOAM FIRE RETARDANT B2 is a premium quality, single-component, moisture-curing, self-expanding aerosol polyurethane foam with excellent bonding strength. It adheres to a wide range of construction material surfaces and is ideal for building insulation. This self-expanding, moisture-resistant foam effectively fills and seals spaces between roof tiles, wall cavities, drilled holes, and gaps around door and window frames.



STANDARDS

- EN 1366-4 :2021 Linear joint sealing
- DIN 4102-1 B2 Class
- ASTM E 90-09:2016 Sound Transmission Test
- ASTM C518-02 Thermal Conductivity

KEY PERFORMANCE PROPERTIES

- **Non-flammable Propellant:** Ensures safe use in various applications.
- **Excellent Adhesion & Filling Capacity:** Bonds well to most surfaces and fills gaps effectively.
- **Excellent Mounting Capacity and Stability:** Provides strong, stable support for installations.
- **Versatile Adherence:** Adheres to nearly all building materials except for polyethylene, Teflon, silicone, and surfaces contaminated with oils, greases, mould release agents, and similar materials.
- **Eco-Friendly:** Does not contain CFCs and H-CFCs.
- **Mould Proof and Waterproof:** Resistant to mould growth and water absorption.
- **Over-paintable:** Can be painted over once cured.
- **High Thermal and Acoustic Insulation Value:** Offers superior insulation properties.

- **Quick Drying, Moisture Curing:** Cures rapidly when exposed to moisture.
- **Closed Cell Structure:** Resistant to water absorption.
- **Rigid Cured Foam:** Can be trimmed, shaped, and sanded after curing.
- **Suitable for Sealing High Volume, Low Movement Gaps:** Ideal for various sealing applications.

AREAS OF APPLICATION

Installation of Fire Protection Doors and Windows:

- Ensures proper sealing and insulation for enhanced fire resistance.

Filling of Vents and Joints in Fire Protection Constructions and Sections:

- Provides effective fire-rated sealing in critical areas.

Fixing and Insulation of Door and Window Frames:

- Enhances thermal and acoustic insulation while providing a secure fit.

Filling and Sealing Gaps, Joints, and Cavities:

- Ideal for various construction gaps requiring a fire-resistant seal.

Filling of Penetrations in Walls:

- Suitable for sealing around pipes, cables, and other wall penetrations.

Insulating Electrical Outlets and Water Pipes:

- Prevents heat and sound transfer through openings.

Multi-Purpose Adhesion and Fixation:

- Versatile use in various construction and insulation applications.

METHOD OF APPLICATION

Surface Preparation:

- PU foam cures with moisture, so it is recommended to moisten the joint before filling.
- Ensure that surfaces are clean, free from dust, grease, and other contaminants.
- Dampen surfaces with water to improve adhesion and curing.

Preparation of the Can:

- Shake the can well for at least 30 seconds before use.
- Attach the included straw gun or applicator to the valve.

Application:

- Hold the can upside down and dispense the foam by pressing the trigger.
- Apply the foam from the bottom upwards for vertical gaps.
- Fill gaps to approximately 50% as the foam will expand.

Rev 05, ASMACO GOLD UNIVERSAL MULTI FOAM FIRE RETARDENT B2_0824



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Curing:

Allow the foam to cure for about 1 hour.

- The ideal application and curing temperature range is between +5°C and +45°C, ideally at 20°C.

Post-Application:

- Once cured, the foam can be cut, trimmed, shaped, or sanded as needed.
- If desired, the cured foam can be plastered or painted over for a finished look.

Cleaning and Storage:

- Clean the applicator immediately after use with a suitable cleaner.
- Store the can in a cool, dry place, upright, and away from direct sunlight and sources of heat.

Safety Precautions:

- Wear protective gloves, goggles, and clothing during application.
- Ensure adequate ventilation in the work area.
- Avoid contact with skin and eyes; in case of contact, rinse immediately with plenty of water and seek medical advice if necessary.

Instructions:

- Optimal can temperature is +20°C. Application temperature is between +5°C and +45°C.
- Shake the can well before use. Screw the tube onto the valve.
- Moisturizing the surfaces and the foam improves adhesion and shortens curing time.
- Hold the can upside down and activate the foam by pressing the valve.
- Pay attention to the speed while spraying. Fill vertical joints from the bottom up, filling only halfway.
- For ceiling gaps, support properly after filling until foam cures to prevent uncured foam from dropping due to gravity.
- Fresh foam can be cleaned immediately with acetone.
- Foam is tack-free after about 10 minutes and can be cut after 60 minutes.
- Use a knife to smooth the cured foam, and treat the surface with cement, paint, or silicone.

Restrictions:

- Storage above +30°C and below -5°C shortens shelf life.
- Should be stored and transported in a vertical position.
- Should be kept at room temperature for at least 12 hours before application.

- Cured foam will discolour if exposed to ultraviolet light.
- For best results in outdoor applications, paint or coat the cured foam.
- Working at lower temperatures decreases foam yield and causes longer curing time.

Wide Joint:

All processes remain the same as stated above.

- Fix the approved backing material to maintain the required depth in the confined conditions.
- Apply foam to the wall side, then in the middle.
- Allow at least one hour for curing. Mist the surface and repeat the application if necessary.
- Once cured, the foam can be cut, trimmed, shaped, or sanded as needed.
- If desired, the cured foam can be plastered or painted over for a finished look.
- Always consult **ANCHOR ALLIED FACTORY LLC** Technical department for wide joint applications.

PACKAGING / SUPPLYING

ASMACO GOLD UNIVERSAL MULTIFOAM FIRE RETARDANT B2 is available in 750 ml, CAN (12 CAN / Carton)

STORAGE & SHELF LIFE

Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. The product store +5°C to 25°C, 50% in RH

The shelf life is up to 12 months in unopened conditions if stored as per guidelines.

QUALITY & CARE

All products originating from **ANCHOR ALLIED FACTORY LLC** Sharjah, UAE. facility is manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 22716:2007, ISO 9001:2015, and ISO 14001, ISO 45001

HEALTH & SAFETY

Contains: Diphenylmethane-4,4'-Diisocyanate. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Do not breathe spray/vapour. Wear suitable protective clothing and gloves. Use only in well-ventilated areas. Pressurized container. Keep away from direct sunlight and do not expose temperatures over 50 °C. Do not pierce or burn, even after use. Keep away from sources of ignition, no smoking. Keep out of the reach of child.

In critical cases seek medical assistance.



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CERTIFICATIONS



مركز الاعتماد الخليجي
GCC Accreditation Center



TECHNICAL SPECIFICATIONS

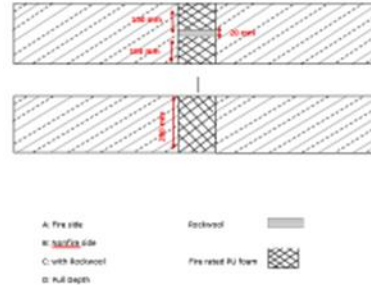
PROPERTIES	UNIT	STANDARDS	RESULTS
Curing system	—	—	Moisture cure
Tack Free time	Minutes	—	15 Max.
Cutting Time	Minutes	—	40-50
Complete Curing	Hours	—	24
Foam Color	—	—	Off White to Light Yellow
Density	Kg/m ³	—	15 — 25
Building Material Class	—	B2 DIN 4102 part 1/ EN 13501-1:2007	—
Fire Rating	—	EN 1366 - 4	120 min.
Adhesion Strength	kPa	—	PVC to PVC 143, Aluminum plates 133, Concrete to Wood 102
Elongation at break	%	—	8 — 20
Shear Strength	kPa	—	22 — 50
Compression Strength	kPa	—	35 — 100 at 10% compression
Water absorption	%	—	Max. 0.05 volume
Thermal conductivity	35°C W/(m.K)	ASTM C518-02	< 0.030
Yield	Liters	—	30 — 45
Can temperature	°C	—	Min.-5, Max.+35
Application temperature	°C	—	+5 — +45 (Ideal Temperature +25)
Temperature Resistance	°C	—	- 40 — +90 when cured
VOC	g/L	USEAP -24	1.31
TVOC	<0.5mg/m ³	CDPH	≤9.0 µg/m ³
Volatile Organic Compounds	g/L	SCAQMD Rule 1168	≤9.0 µg/m ³

Properties listed are based on laboratory-controlled tests, all values given are subject to 5-10% tolerance.



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DESCRIPTION OF THE TEST SPECIMEN



FIRE RESISTANCE CHARACTERISTICS

Gap Width	Gap Depth	Back Up Material	Back Up Dimensions	Integrity	Insulation
10 mm	200 mm	None	N/A	120 minutes	120 minutes
15 mm	200 mm	None	N/A	120 minutes	120 minutes
20 mm	200 mm	None	N/A	120 minutes	120 minutes
25 mm	90 mm Both Sides	20 mm Rock wool in the middle	25 x 20 mm	120 minutes	120 minutes
30 mm	90 mm Both Sides	20 mm Rock wool in the middle	30 x 20 mm	120 minutes	120 minutes
35 mm	90 mm Both Sides	20 mm Rock wool in the middle	35 x 20 mm	120 minutes	120 minutes
40 mm	90 mm Both Sides	20 mm Rock wool in the middle	40 x 20 mm	120 minutes	120 minutes

Shipping Limitations: None

Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS, SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL

Rev 05, ASMACO GOLD UNIVERSAL MULTI FOAM FIRE RETARDENT B2_0824

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