ADFOAM FIREBLOCK 1860
Fire rated polyurethane foam

DESCRIPTION

ADFOAM FIREBLOCK 1860 is a fire rated one-component, self-expanding, ready to use flexible polyurethane foam. It is used for electrical and plumbing penetrations in wall, ceiling or floor. It contains CFC-free propellants, which are completely harmless to the ozone layer. ADFOAM FIREBLOCK 1860 has a fire resistance up to 235 minutes. It adheres to most common construction materials and can also be used in plumbing and electrical applications.

PHYSICAL PROPERTIES

Base	Polyurethane
Color	Red
Consistency	Stable foam
Curing system	Moisture cure
Tack Free Time [20°C (68°F) / 65% H.R.] (ASTM C1620)	4 – 10 minutes (1 cm/0.4'' diameter)
Cutting time [20°C (68°F) / 65% H.R.] (ASTM C1620)	30 – 45 minutes (1 cm/0.4'' diameter)
Curing time [20°C (68°F) / 65% H.R.]	24 hours
Yield (ASTM C1536)	30-45 L
Post expansion	200% – 250%
Skrinkage	0%
Specific gravity (ASTM D1622)	19 – 25 kg/m^3
Temperature resistance	-40°C (-40°F) to 90°C (194°F) when cured
Fire class (DIN 4102)	B1 (when cured)
Thermal conductivity (DIN 52612)	0.036 W/m.k. (at 20°C / 68°F)
Compression strength (DIN53421)	0.03 MPa
Water absorption (DIN 53428)	Maximum 1% (Volume)
Optimum can temperature	5°C (41°F) to 30°C (86°F)
Application temperature	5°C (41°F) to 30°C (86°F)
V.O.C.	< 2 g/L

FIRE RATED TEST (I.A.T.M.)

Wall thickness	Joint dimension	Backing material	Fire resistance in minutes
200 mm	width : 11 mm (0.43'') depth : 200 mm (7.87'')	None	235 min.
200 mm	width : 31 mm (1.22'') depth : 200 mm (7.87'')	None	147 min.
100 mm	width : 21 mm (0.83'') depth : 100 mm (3.94'')	None	64 min.
100 mm	width : 11 mm (0.43'') depth : 100 mm (3.94'')	None	106 min.

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PRODUCT CHARACTERISTICS

- Fire resistance up to 235 minutes
- Efficient seal against smoke and gas
- Gun use, reusability and precise application
- Does not contain CFC's and H-CFC's
- Excellent adhesion and filling capacity
- Excellent mounting capacity and stability
- Economical consumption thanks to precise application
- High yield up to 55 liters depending on temperature and humidity
- Mould proof, waterproof and paintable

APPLICATIONS

- Filling and sealing gaps, joints and cavities
- Filling penetrations in walls, ceilings and floors
- Heat insulation of roof construction
- Sealing of cable and pipes penetrations
- Bonding of insulation materials
- Multi-purpose, adhesion and fixation

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 FIREBLOCK 1860 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). 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 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. 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: 5°C (41°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/840gr cans

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STORAGE AND SHELF LIFE

9 months in unopened packaging in a cool and dry storage place at temperatures between 5°C (41°F) and 25°C (77°F). Always store and transport 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.

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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