

MasterSeal[®] B1 Foam

Fire retardant, expanding foam and gap filler

DESCRIPTION

MasterSeal B1 Foam is a specially formulated, single component, expanding construction foam with fire retardant properties. It is fire rated B1 when tested according to DIN 4102-1. It is used to create a seal between building elements and around intrusions. It cures through reaction with atmospheric moisture to a semi-flexible foam with tenacious adhesion to most construction materials. When used as a gap filler it ensures stability and flexibility of fixed elements. **MasterSeal B1 Foam** provides up to 120 minutes fire resistance. When combined with appropriate fire rated joint sealants this resistance can be increased even further.

TYPICAL APPLICATIONS

MasterSeal B1 Foam has been especially developed to provide a simple method for providing a fire resistant seal in filling irregular gaps and cavities between building elements such as separation walls, ceilings and floors and around intrusions such as pipes, cable trays, conduits and ducting. It is ideal for rapid, economic fixing and sealing around window and door frames.

ADVANTAGES

- Fire resistance in joints up to 30mm of 120 minutes
- Tested according to EN 1366-4
- High expansion for maximum yield
- Bonds perfectly on most substrates without primer: can be universally used
- Can be used to fill irregular gaps and cavities
- Simple application
- Can be shaped and cut after only 1 hour
- Can be painted or plastered over
- Low thermal conductivity helps prevent cold gaps and condensation
- Good acoustic insulation properties

PACKAGING AND COLORS

MasterSeal B1 Foam is supplied in boxes of 12 x 750ml aerosol cans and available in Pink.

STANDARDS

EN 1336-4
 DIN 4102-1 B1

TYPICAL PROPERTIES*

Cure mechanism	Reaction with atmospheric moisture
Density	15-20 kg/m ³
Cure time (23°C 55% RH)	1-3 hours
Hardening/cutting time (23°C 55% RH)	+/- 60 minutes
Application temperature	+10°C to 35°C
Thermal Conductivity	30-35 mW/m.K
Acoustic insulation	58 dB
Temperature in service	-40°C to + 90°C

APPLICATION GUIDELINES

SURFACE PREPARATION

To ensure optimum adhesion substrates must be sound, clean, dry and free from any loosely adherent material which could prevent adequate bond to the substrate. **MasterSeal B1 Foam** adheres perfectly without the use of a primer to most non porous substrates, however adhesion can be promoted by mist spraying the surfaces with clean water.

PLACING / APPLICATION

Ensure that the can temperature is at least 10°C. Remove the cap and screw the spray nozzle onto the connector on top of the canister. Shake the can vigorously before use (at least 20 times). Turn can upside down (proper working position) and press the can's trigger. Fill about 50-60% of the joint, because the foam will expand. If gaps are greater than 40mm deep or wide it is advisable to fill in two stages (to allow atmospheric moisture to achieve full cure). Allow first layer to stiffen for at least 20 minutes before filling remainder of the cavity. Fresh foam can be removed using solvent such as xylene. After curing (60 minutes) the excess foam can be cut and shaped using a knife.

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APPLICATION TEMPERATURE RANGE

Minimum	+10°C
Maximum	+35°C

CLEANING

Clean uncured material solvent. Cured material can only be cleaned mechanically. Protect all surrounding areas before use!

COVERAGE / YIELD

750ml unit will yield approximately 45 litres of foam (0.045 m³).

WATCHPOINTS

While the foam does provide a watertight barrier, moisture vapor can pass through.

STORAGE AND SHELF LIFE

MasterSeal B1 Foam has a shelf life of 18 months from production date when stored in its original packaging in a dry place at temperatures between 5°C and 25°C. Store aerosol cans in an upright position.

HEALTH AND SAFETY

Keep out of reach of children. Extremely flammable. Avoid contact with the skin, eyes and clothing. Only use in well ventilated areas. Wear gloves and eye goggles. Do not smoke, drink or eat during use.

- H332: Harmful if inhaled.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.
- P211: Do not spray on an open flame or other ignition source.
- P251: Do not pierce or burn, even after use.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.

- P263: Avoid contact during pregnancy/while nursing.
- P271: Use only outdoors or in a well-ventilated area.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F.
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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