



a.b.e.® Construction Chemicals

abe® pu filler foam

Polyurethane

EXPANDING POLYURETHANE FOAM

DESCRIPTION

abe® pu filler foam is a high performance, one-component polyurethane foam. It is an easily applied product that cures to a tough long-lasting semi-rigid cellular structure.

USES

For internal and external applications including fixing and sealing door and window frames. Making good brickwork and mortar where pipes have been fed through walls and general filling of cavities, cracks and holes.

ADVANTAGES

- Excellent adhesion to most construction materials
- Expands up to 50 times its original volume
- Fast curing
- Self moulding to surface irregularities
- For internal and external applications
- Gives effective insulation against damp and draught and is completely water resistant
- Flexible applicator nozzle allows easy access into difficult areas
- Ozone friendly propellant in accordance with the 1987 protocol

SURFACE PREPARATION

Clean surfaces of dust, loose particles and grease. It is important to note that moisture assists the foams adhesion, therefore moisten surfaces thoroughly but do not allow standing water to occur. If required, areas adjacent to the joint should be masked with tape to prevent contamination of substrates. Masking tape should be removed once the material has fully cured.

TYPICAL PHYSICAL PROPERTIES

Foaming yield per 500 ml can	± 24,6 L
Tack free time at 25°C	10 minutes
Cutable time at 25°C	38 minutes
Compressive resistance at 10% elongation	5 N/cm ²
Dimensional stability after 4 weeks	100%
Volume weight	30-35 kg/m ³
Long temperature resistance of cured bead	-40°C up to +100°C
Short temperature resistance of cured bead	-40°C up to +130°C
Pressure in the can at 20°C	5,5 bar
Cured foam flammability rating (DIN 4102 Part 1)	B 3
Tensile strength	18 N/cm ²
Elongation at break	14%

BONDING/PRIMING

No priming required.

MIXING

Shake the contents of the can for about 30 seconds to mix the material thoroughly.

COVERAGE

The foam will expand +50 times its original volume.

APPLICATION

- Ensure adequate ventilation.
- Ensure hands are protected with gloves.
- Screw the applicator nozzle onto the valve. Holding the can in an upside down position, press the trigger on the applicator nozzle to extrude foam.
- After application remove the nozzle and clean with a pipe cleaner and cellulose thinners or acetone. To prevent blockage of the valve, insert moistened match stick or screw into the uncured foam in the valve. For reuse, remove the match stick or screw and the cured plug of foam will come away leaving the valve clean.
- **abe® pu filler foam** should not be applied to Teflon coated surfaces or polyethylene.

CLEANING

Cellulose thinners or acetone may be used in the uncured state.

PROTECTION ON COMPLETION

Cured material can be cut, sawn or sanded. In areas where material is to be overpainted, the foam should be cut flush with adjoining substrates prior to painting. In situations where plastering or capping with sealant is required, the foam should be sufficiently recessed to allow for this. Where sealants are to be used in conjunction with the foam the adjacent substrates should be free from contamination by the foam. **abe® pu filler foam** is not resistant to UV radiation and should be covered if exposure to prolonged sunlight is anticipated.

APPLICATION TEMPERATURE

5°C to 25°C.

When air temperature is below 0°C stand the can in warm water, not exceeding 30°C, to assist in the flow of foam. Do not use warmer water or open flame as this might affect the expansion qualities of the foam. Optimum application temperature (can and surface): +20°C.

MODEL SPECIFICATION

High-performance, one-component polyurethane foam, semi-rigid cellular structure. The polyurethane filler foam will be **abe® pu filler foam**, a high performance, one-component polyurethane foam of semi-rigid cellular structure applied in accordance with the recommendations of **abe® Construction Chemicals**.

HANDLING & STORAGE

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

PACKAGING

abe® pu filler foam is supplied in 500ml metal containers.

HEALTH & SAFETY

- During use, keep away from sources of ignition and do not smoke.
- In the event of product coming into contact with the eyes, wash immediately with plenty of water and seek medical advice.
- Avoid contact with skin and eyes.
- Use suitable gloves and eye/face protection.
- If swallowed or if you feel unwell, seek medical advice immediately and show container label where possible.
- Contains isocyanate.
- Keep out of reach of children.
- Pressured container; protect from sunlight and do not expose to temperatures exceeding 50°C.
- Do not pierce or burn even after use and the container is empty.
- Do not spray onto a naked flame or an incandescent material.
- Do not use near open flames.

This material contains flammable components, therefore it must only be used in well ventilated areas and kept away from sources of ignition (i.e.) open fires, electric gadgets and electrostatic charges. Where more than one can has been used in one area, vapours may gather causing explosive or noxious concentrations.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied - accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **a.b.e.® Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.



a.b.e.® is an ISO 9001:2008 registered company
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