



WEIDU WD-B1

Fire-Retardant Polyurethane Foam

Product Description

WEIDU™WD-B1 Fire-Retardant Polyurethane Foam is a high-performance, single-component formulation engineered to seal joints, penetrations, and irregular voids in fire-rated structures while meeting international fire safety compliance.

Featuring a universal plastic adaptor for foam guns/straw dispensers, this moisture-activated PU foam cures rapidly to deliver high-performance gap-filling, sealing, and load-bearing with thermal/acoustic insulation, achieving B1 fire-resistance rating.

Features

- Fire resistant in a joint (EN 1366-4) for 240minutes
- Good adhesion to a wide variety of surfaces such as uPVC, masonry, brick and timber
- High filling capacity
- High thermal and acoustic insulation
- Excellent for wooden doors and windows, no shrinkage in any temperature.

Typical Properties-Uncured

Information on this data sheet can change without notice, and it is therefore not recommended that these figures be used in spec writing. If you have any questions, please contact manufacturer's sales and technical service department.

Basis	Polyurethane
Consistency	Stable foam, thixotropic
Curing system	Moisture curing
Skin Formation	9 min
Cutting Time	30 min
Density	Ca. 21 kg/m ³
Sound insulation	58 dB
Insulation factor	37 mW/m.K
Box Yield	750 ml yields ca. 40L of foam
Joint Yield	750 ml yields ca. 35 - 40m of foam
Shrinkage after curing	< 3 %
Expansion after curing	< 1 %
Expansion during curing	Ca. 117 %
Compressive strength	Ca. 140 kPa
Shear strength	Ca. 170 kPa
Temperature resistance**	-20°C till +90°C (cured) 120 °C (max 1 hour)



Technical Data

Application Scope

- All foam applications in static and not static joints.
- Filling of cavities.
- Sealing of all openings in roof constructions.
- Apply of a sound absorbing layer.
- Improving thermal isolation in cooling systems.
- Insulating around pipes and electrical wiring.

Construction Suggestions

- Application temperature is between 5°C - 40°C. Use in well-ventilated areas.
- In case of eye contact, flush with water and get immediate medical attention.
- Keep away from direct sunlight, heat, sparks flames and static electricity.

Construction Steps

- Shake the aerosol can for at least 40 seconds.
- Clean and moisten surfaces with a water sprayer prior to application.
- Fit the gun or straw on the adaptor firmly, screw the can on the adaptor and turn the flow adjustment screw.
- Fill the holes and cavities approximately 50% as the foam will expand. Bottom up during application.
- Foam will be tack-free in 10 minutes.
- Excess can be trimmed in 20 minutes.

Storage

15 months unopened and stored in dry and cool conditions between 0°C - 50°C. Always keep the can with the valve pointed upwards.

Packaging Information

WEIDU™ WD-B1 Fire-Retardant Polyurethane Foam is supplied in 750ml can

Caution/Safety

- Take the usual labour hygiene into account.
- Always wear gloves and goggles. Remove cured foam mechanically.
- Never burn away. Consult label and material safety data sheet for more information.
- When vaporizing (for example with a compressor), additional security measures will be required.
- Use only in well ventilated areas.

Remarks

Slightly moistening of the surface in hollow spaces optimizes curing, good adhesion and yield.



Technical Data

Warning Information

WEIDU™ warrants that its product complies, within its shelf life, to its specification.

If any responsibility were to be considered ours, this would be only for any damages and for the value of the merchandise supplied by us and used by the customer. It is understood that we warranty the irreproachable quality of our products in accordance with our General Conditions of Sales and Supply.

Liability

The information in this document, in particular recommendations regarding the application and final use of our products, is given in good faith based on our knowledge and is the result of tests and experience and is intended as guidelines. It is the responsibility of the user to determine whether the product is suitable for their application. Due to the great variety of materials and conditions, which are beyond our knowledge and control, we recommend carrying out sufficient prior trials.

The property rights of third parties must be respected.

This TDS replaces and supersedes all previous data sheets for the same product.



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