



818



RAMSAUER®

LASTING
BONDS.

Winter Pistolen Schaum

1-component polyurethane foam



Technical data sheet

Version: 02-2024

Tests:

- Processing at substrate and ambient temperatures down to -20 °C
- Work independently of weather conditions
- Building material class B2 as per DIN 4102-1 resp. E as per EN 13501-1
- For universal use
- Ecode EC1^{PLUS} "very low emissions"
- Sound damping according to EN ISO 717-1 & 10140-1



1. Mechanical Properties

Basis	1-component polyurethane foam
Yield in free foaming, 750 ml can	Up to 55 litres
Cell structure	Fine-pored
Foam colour	Yellow
Bulk density 15 – 18 kg/m ³	15 – 18 kg/m ³
Adhesive-free (dry application)	~ 5 min.
Cutable after (ø 20 mm bead, dry application)	~ 15 min.
Fully loadable after (ø 30 mm bead)	~ 24 hours
Optimum application temperature (can, substrate, environment)	+ 20 °C
Maximum application temperature (can, substrate, environment)	+ 30 °C
Minimum application temperature (can, substrate, environment)	- 20 °C
Minimum application temperature (can)	+ 5 °C
Resistance to high and low temperatures of the cured foam bead	- 40 °C to +80 °C (short-term +100 °C)
Building material class as per EN 13501-1 / DIN 4102-1	E / B2
Sound damping according to EN ISO 717-1 & 10140-1	[R _{s,w} (C;C _{tr}) ≥ 63 (-2;-5) dB] / joint width 20mm x joint depth 100mm
Shelf life (given dry, cool storage)	18 months
Ideal storage temperature for can	Between 10°C and +20°C

2. Properties

818 Winter Pistolen Schaum is a moisture-curing, 1-component polyurethane foam. Its special formula allows for use at low temperatures down to -20 °C. To achieve the best possible work results, the temperature of the cans to be processed should be +5 °C. This product's lower moisture requirement ensures a homogeneous cell structure and uniform through-drying even on cold substrates and at low ambient temperatures. 818 Winter Pistolen Schaum adheres to all common building materials, except polyethylene, silicone, oils and greases, mould release agents or similar substances. The foam can be applied at substrate and ambient temperatures from -20 °C to +30 °C. The cured foam is semi-rigid, predominantly closed-cell, rot-proof, moisture resistant and resistant to high and low temperatures from -40 °C to +80 °C. It is resistant to weathering and ageing, but not to UV radiation. The thermal and sound insulation values are excellent.



RAMSAUER®

818

LASTING
BONDS.

Winter Pistolen Schaum

3. Application

In window construction work for clean and controlled backfilling and for insulating sealing of perimeter joints in windows and roller shutter boxes. 818 Winter Pistolen Schaum is a great choice for filling perimeter joints and joints of exterior door frames, but not as an assembly aid without additional mechanical fastening. For foaming small wall recesses, pipe lead-throughs of any type and other cavities.

4. Work preparation

The substrates must be firm, clean, and free from dust and grease. Remove loose parts and moisten the substrates with plenty of water immediately before application. If necessary, use suitable deep primers to improve the load-bearing capability. Prepare all components appropriately for bonding. Have Ramsauer 817 Universal-Reiniger available for any required cleaning and removal of fresh foam. The ideal application temperature is + 20 °C. If the cans are too cold, warm them up carefully in lukewarm water. Never heat above +50°C, otherwise, there is otherwise a risk of bursting. If the cans are too hot, e.g., on removal from the vehicle in summer, cool them appropriately in cold water, but avoid shaking. Observe the instructions for use of the applicator gun. Deposit the can and screw the applicator gun with the threaded adapter onto the threaded ring of the can. Do not tilt or overtighten the can. To achieve an even finer and more uniform cell structure, an adapter hose can be attached to the applicator gun.

5. Processing

Follow the instructions on the can and for the foam gun. The fresh foam expands by one and a half to two times; avoid overfilling cavities for this reason. Dispense the foam by pressing the gun trigger in a controlled way. Curing of the foam is supported and accelerated by additional moisture on the substrates. Moistening after each foam layer is recommended for larger joints and cavities. Insufficient moisture and overfilled cavities can cause undesirable, retroactive expansion of the foam. Remove fresh foam stains immediately with 817 Universal Reiniger; this can only be done within the tack-free period. Cured foam can only be removed using 831 Schaumlöser or mechanically. Ramsauer offers all polyurethane foams with the innovative Sicherheitsventil PLUS safety valve. The system offers massive benefits compared with conventional valves: improved dosing capability in combination with a finer foam structure are just a few of these benefits. For applicator gun foams, compatibility with most foam guns on the market is given; however, this must be checked on a case-by-case basis. Of course, all Ramsauer foam guns are perfectly matched with our Sicherheitsventil PLUS.

6. Safety instructions

Please refer to the current EC safety data sheet. Data sheets are available at any time from our website at www.ramsauer.eu. Since August 23, 2023, commercial processors have been required to undergo training in the use of PU foams. This training must be refreshed and documented at least every five years.

7. Health protection and industrial safety

Avoid swallowing, prolonged or repeated contact with the skin. Keep out of the reach of children. Request a safety data sheet!

8. Application notes

Ramsauer 818 Winter Pistolen Schaum only cures evenly and quickly if sufficient moisture is available; always moisten substrates well.

9. Liability for defects

The information, in particular the suggestions for the processing and use of our products, is based on our knowledge and experience in normal use cases at the time of printing. Depending on the specific circumstances, in particular with regard to substrates, processing and environmental conditions, the results may differ from this information. Therefore the guarantee of a work result or a liability, for whatever legal reasons, can be justified neither from these references, nor from a verbal consultation, unless we are guilty of intent or gross negligence in this respect. Ramsauer guarantees that its products comply with the technical properties specified in the technical data sheets until the expiry date.

Product users must consult the latest technical data sheet, which can be requested from us. Our current General Terms and Conditions apply, which you can download at any time from our homepage at www.ramsauer.eu. On publication of a new version/revision of the technical data sheet, all previous versions of the respective product lose their validity.