



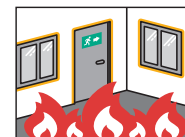
RAMSAUER®

806

LASTING BONDS.

Brandschutz Kombi Schaum

1-component polyurethane foam for use with adapter or gun

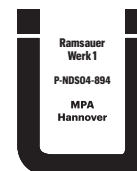


Technical data sheet

Version: 04-2024

Tests/benefits:

- Preventive fire protection
- Building material class B1 as per DIN 4102-1
- Complies with building material class B-s1,d0 as per EN 13501-2:2005, approved in line with EN13823 and EN11925-2,
- Fire resistance tested up to 240 min. in line with EN1366-4:2006 (U); classification as per EN13501-2:2005
- Can be used either with gun or adapter.
- TÜV-approved, guaranteed non-stick safety valve
- More safety – reduced risk of accidents
- Emicode EC1^{PLUS} "very low emissions"



1. Technical datas

Base	1-component polyurethane foam
Yield in free foaming 750ml can (EN 17333-1.2. / moist)	up to 40 litres
Cell structure	medium porous
Foam colour	red
Foam density free foamed (EN 17333-1.3. / dry)	approx. 20 – 22kg/m ³
Adhesive-free (EN 17333-3.2. / dry)	~ 8 min.
Cutable after (EN 17333-3.1. / dry)	~ 45 min.
Fully loadable after (Ø 30 mm bead)	~ 12-14 hours
Optimum application temperature (can, substrate, environment)	+20°C
Minimum and maximum application temperatures (can, substrate, ambient)	+5 °C to +30 °C
Temperature resistance of cured foam	-40 °C to +80 °C (short-term +100 °C)
Building material class as per DIN 4102-1	B1
Compressive strength at 10% compression according to EN 17333-4.1	dry ~35kPa / moist ~25kPa
Tensile strength according to EN 17333-4.2	dry ~115kPa / moist ~115kPa
Elongation at break according to EN 17333-4.2	dry ~10% / moist ~10%
Shear strength according to EN 17333-4.3	moist ~50kPa
Expansion (EN 17333-2.3.)	dry ~60%
Dimensional stability (EN 17333-2.1.)	dry ±5% / moist ±5%
Curing pressure (EN 17333-2.2. / moist)	after 90min ~ 1,5kPa
Shelf life (given dry, cool storage)	18 months
Ideal storage temperature for can	from +10°C to +20°C
Storage of the can	dry, upright, and protected against exposure to frost and heat



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2. Properties

806 Brandschutz Kombi Schaum is a flame-retardant polyurethane foam that meets the requirements of DIN 4102 (B1) and European standard EN 13501 (building material class B). The product is applied on its own to achieve these standards requirements. It is used in combination with other fire-retardant materials to comply with stricter requirements, such as the fire resistance classes of EN 13501-2 (EI). The development and manufacture of this product are subject to the strict quality assurance standards of ISO 9001/EN 29001. 806 Brandschutz Kombi Schaum adheres to all common building materials, except polyethylene, silicone, oils and greases, mould release agents or similar substances. The cured foam is semi-rigid, predominantly closed-cell, rot-resistant, 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.

3. Application

For preventive fire protection in insulating sealing of perimeter joints in windows and doors and for foaming wall recesses and other cavities.

4 Work preparation

The surfaces 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 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.

5. Processing

Do not overfill cavities, as the fresh foam will expand up to approx. 100%. Moisten the applied foam again uniformly. Moistening after each foam layer is recommended for larger joints and cavities. Insufficient moisture and/or overfilling can cause undesirable, retroactive expansion of the foam. Remove fresh foam stains immediately with 817 Universal Reiniger. Cured foam can only be removed using 831 Schaumlöser or mechanically.

Application with adapter:

For application with an adapter, loosen the gun ring from the can anti-clockwise. Screw the adapter with extension hose tightly onto the valve as far as it will go. Shake the can well before use (approx. 20x). The foam discharge can be precisely regulated by varying the pressure on the adapter. Actuate the adapter carefully to control the amount of foam. After processing, push the adapter hose into the holding device and pull it over the sealing lip. Ensure a tight fit. Work interruptions of several weeks are now possible. To use again, pull the adapter hose out of the holding device.

Application with gun:

Before screwing the can onto the applicator gun, shake the can well approx. 20x. Observe the instructions for use of the gun. Tear the retaining tab on the safety adapter off the gun ring. 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. The hose should be no longer than 5 cm. Dispense the foam by pressing the gun trigger in a controlled way. After processing, foam residues on the applicator gun must be cleaned off immediately by using 817 Universal Reiniger. This also applies to the adapter hose, if used. If the can is not empty, leave the applicator gun attached until the next application. An opened can must be used within 4 weeks. If the can is completely empty, carefully unscrew the applicator gun and first clean the outside with 817 Universal Reiniger. Then screw on a can of 817 Universal Reiniger and press the trigger several times while pointing the gun tip into a suitable catchment container to clean the inside of the applicator gun.

Caution: The cleaningliquid escapes at high pressure and is high flammable.

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.



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6. Safety instructions

Please refer to the current EC safety data sheets. 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 806 Brandschutz Kombi 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, with regard to the substrate, processing and environmental conditions, the results may differ from our information. No warranty or liability claim for any reason whatsoever arises from these instructions or from any instructions issued verbally. 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; you can download these 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.