TECHNICAL DATA SHEET

BOSS® PRODUCTS

REVISION | 18-05-2026

# BOSS® 333 POLYURETHANE EXPANDING FOAM

## TECHNICAL DATA

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|---|---|
| Basis | Polyurethane |
| Consistency | Stable foam, thixotropic |
| Curing System | Moisture curing |
| Skin Formation* | 10 min |
| Cutting Time* (EN 17333-3) | 35 min |
| Free foamed density (EN 17333-1) | Ca. 29 kg/m³ |
| Thermal conductivity (λ) (EN 12667) | 0.035 W/m.K |
| Box Yield (EN 17333-1) | 750 ml yields ca. 28 l of foam |
| Joint Yield (EN 17333-1) | 750 ml yields ca. 20 m of foam |
| Shrinkage after curing (EN 17333-2) | < 1 % |
| Expansion after curing (EN 17333-2) | None |
| Expansion during curing (EN 17333-2) | Ca. 167 % |
| Percentage closed cells (ISO4590) | Ca. 7 % |
| Reaction to fire classification (EN 13501-1) | No fire classification (F) |
| Compressive strength (EN 17333-4) | Ca. 22 kPa |
| Shear strength (EN 17333-4) | Ca. 39 kPa |
| Tensile Strength (EN 17333-4) | Ca. 80 kPa |
| Temperature resistance** | -40 °C till +90 °C (cured) |

*These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.
**This information relates to fully cured products.

## Description

BOSS® 333 is a one-component, self-expanding, ready-to-use PU-foam, which contains HCFC-free and CFC-free propellants which are not harmful for the ozone layer.

## Properties

- Excellent stability (no shrinkage or post expansion)
- High filling capacity
- Good adhesion on all surfaces (except PE, PP & PTFE)
- High insulation value: thermal and acoustic

## Applications

- Filling of cavities
- Sealing of all openings in roof constructions
- Application of an acoustic baffle
- Improving thermal isolation in cooling systems
- All foam applications in static joints
- Effectively seals formwork tie rod holes in concrete structures, providing thermal and acoustic insulation while preventing water ingress

## Storage & Shelf life

12 months: unopened and stored in dry and cool condi-tions (between 5°C and 25°C). Upright storage is recommended.

## Packaging

Colour: Champagne
Packaging: 750 ml aerosol (net)

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## Application method

Shake the aerosol can for at least 20 seconds. Put the adapter on the valve. Moisten surfaces with a water sprayer prior to application. For non-conventional substrates, a preliminary adhesion test is recommended. Remove pressure from the applicator to stop. Fill holes and cavities for one-third of the space as the foam will expand. Repeat shaking regularly during application. If you have to work in layers, repeat moistening after each layer. Fresh foam can be removed using BOSS® C-33 Foam Cleaner or acetone. Cured foam can only be removed mechanically or with PU-Remover.

**Can temperature:** +5 °C - 30 °C
**Ambient temperature:** +5 °C - 30 °C
**Surface temperature:** +5 °C - 35 °C

## Health- and Safety Recommendations

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

- Moisten surfaces with a water sprayer prior to application. If you have to work in layers, repeat moistening after each layer. For uncommon surfaces, we recommend an adhesion test.
- Not UV-resistant, cured polyurethane foam must be protected against UV exposure by overpainting, sealing with sealants (e.g. silicones, polyurethane, acrylic or hybrid polymer) or covering.

Disclaimer: This technical data sheet replaces all previous versions. The directives contained within this documentation are the result of our experiments and experience, and have been submitted in good faith. Because of the diversity of the materials and substrates, in addition to the great number of possible applications that go beyond our control, we cannot accept any responsibility for the results obtained. Further, since the design, quality of the substrate, and processing conditions are beyond our control, no liability under this publication will be accepted. In every case, it's therefore recommended to carry out preliminary experiments. BOSS reserves the right to modify its products, without prior notice.

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