

PRODUCT DATA SHEET

Sika Boom®

ONE COMPONENT, MULTI-POSITION, HIGH YIELD ADHESIVE FOAM



PRODUCT DESCRIPTION

Sika Boom is a one part, multi position, high yield polyurethane adhesive foam.

USES

Sika Boom is used for fixing, insulating and filling connection joints around window- and door-frames, pipe entries around air-conditioning vents and roller blind housings, etc. It is also used to insulate against sound, cold and draughts etc.

CHARACTERISTICS / ADVANTAGES

- Multi-position can allows foam to be applied at any angle (360°)
- High yield
- BRANZ appraised (Appraisal No. 452 [2007])
- Easy application with valve nozzle (adapter)
- Suitable for application at lower temperatures (+5°C)
- Fast curing
- Excellent insulation properties
- Effective sound dampening
- Age resistant
- HFC-free

PRODUCT DATA

FORM

1-part polyurethane, moisture curing

COLOUR

Light yellow

PACKAGING

250ml can (20 cans per box)

500ml can (12 cans per box)*Available with Gold Valve Technology

750ml can (12 cans per box)*Available with Gold Valve Technology

STORAGE**STORAGE CONDITIONS / SHELF-LIFE**

Sika Boom has a shelf life of 15 months for gold valve cans and 12 months for rubber valve cans from the date of production, if it is stored properly in undamaged, original, sealed packaging, and if the storage conditions are met. Opened cans of Sika Boom with rubber valve may be used within 2 weeks or up to 12 weeks for cans of Sika Boom with a gold valve, if the nozzle is removed and cleaned with Sika Boom-Cleaner or acetone after each use.

DENSITY

20 kg/m³ approx.

WATER ABSORPTION

<1% volume (cut surface)

(DIN EN 12087)

TECHNICAL DATA**SPECIFIC GRAVITY**

0.024 ± 0.003 kg/l (= 24 ± 3 kg/m³)

SKINNING TIME

10 ± 2 minutes (+23°C / 50% r.h.)

CURING RATE

A 20mm bead of expanded foam can be cut after 30 minutes (+23°C 50% r.h.). Full cure after 12 hours (+23°C / 50% r.h.).

SERVICE TEMPERATURE

-40°C to +80°C (temporary exposure up to +100°C)

HEAT CONDUCTIVITY

~ 0.0389 W/mK

(DIN 52 612)

COMPRESSIVE STRENGTH

~ 0.04 ± 0.01 N/mm² with 10% deformation (+23°C / 50% r.h.)(DIN 53 421)

SHEAR STRENGTH

~ 0.04 ± 0.02 N/mm² (+23°C / 50% r.h.)

(DIN 53 427)

TENSILE STRENGTH

~ 0.08 ± 0.02 N/mm² (+23°C / 50% r.h.)

(DIN 53 430)

ELONGATION AT BREAK:

~ 38% ± 2% (+23°C / 50% r.h.)

(DIN 53 430)

SUBSTRATE TEMPERATURE

+5°C min. / +35°C max. (aerosol can has to be +5°C min.)

AMBIENT TEMPERATURE

Optimum handling temperature: +20°C

Permissible handling temperatures: +5°C min. / +35°C max.

RELATIVE AIR HUMIDITY

Between 30% and 100%

CONSUMPTION

Consumption can be regulated by the pressure and angle of the valve / adapter.

Yield: 750ml can up to 36 litres (+/- 3 litres)

500ml can up to 24 litres (+/- 2 litres)

250ml can up to 12 litres (+/- 2 litres)

System Information

APPLICATION CONDITIONS

SUBSTRATE QUALITY

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles.

SUBSTRATE PREPARATION

Pre-dampen the substrate with clean water, this ensures that the foam cures optimally and also prevents secondary foam expansion later on.

AMBIENT AIR TEMPERATURE

Optimum: +18 °C to +25 °C

Permissible: -10 °C to + 40 °C

Min. 3 °C above dew point temperature

REALTIVE AIR HUMIDITY

30% to 95%

APPLICATION METHOD / TOOLS

- Shake the can thoroughly before use (~ 20 times).
- Screw the adapter firmly right down into place without pressing the valve.
- Holding the valve in any position, regulate foam flow with pressure on the valve/adapter.
- Fill deep cavities in several layers. Take care to allow each layer to cure and expand sufficiently by spraying with water between each layer or allowing sufficient waiting time between the layers.
- Do not fill up hollow sections completely from the nozzle as the foam expands by 1.5 to 2 times its volume during curing!
- All fixings and components, etc must be temporarily supported until the foam has hardened.

CLEANING TOOLS

Remove fresh spots of foam immediately using a cleaner such as Sika Boom Cleaner. Cured foam can only be removed mechanically.

NOTES ON APPLICATION / LIMITATIONS

- Shake the can thoroughly before use (~ 20 times).
 - Screw the adapter firmly right down into place without pressing the valve.
 - Holding the valve in any position, regulate foam flow with pressure on the valve / adapter.
 - Fill deep cavities in several layers. Take care to allow each layer to cure and expand sufficiently by spraying with water between each layer or allowing sufficient waiting time between the layers.
 - Do not fill up hollow sections completely from the nozzle as the foam expands by 1.5 to 2 times its volume during curing!
 - All fixings and components, etc. must be temporarily supported until the foam has hardened.
 - Sika Boom should always be stored in an upright position
 - The minimum can temperature for application must be +10 °C
 - In order to achieve a good quality foam, the can temperature should not vary more than 5 to 10 °C from the ambient temperature.
 - Protect the can from direct sunlight and temperature above +50 °C (danger of explosion)
 - For correct curing of the foam, sufficient moisture is necessary
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- Do not use on polyethylene (PE), polypropylene (PP) polytetrafluoroethylene (PTFE/Teflon), and silicone, oil, grease and other separating agents.
 - Sika Boom is not resistant to UV light
 - Read all safety and technical recommendations which are printed on the Sika Boom can.
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VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

HEALTH AND SAFETY INSTRUCTIONS

PROTECTIVE MEASURES

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

IMPORTANT NOTES

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations.



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