

Sika Boom®-G

One-part, high yield, gun applied polyurethane fixing foam

Positioning Description

Sika Boom-G is a one part, high yield polyurethane fixing foam applied with the Sika Boom-G Dispenser gun.

Use

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

Advantages

- High yield
- BRANZ appraised (Appraisal No. 452 [2007])
- Easy application with the Sika Boom-G Dispenser Gun
- Suitable for application at lower temperatures (+5°)
- Fast curing
- Excellent temperature insulation
- Effective sound dampening
- Age resistant
- CFC/HFC-free

Product Data

Colours:

Light yellow

Storage & Shelf Life:

9 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between $\pm 18^{\circ}\text{C}$ and $+20^{\circ}\text{C}$. The aerosol cans must be stored in a vertical position! An opened can must be used within 4 weeks

Packaging:

750 ml can (12 cans per box)

Technical Data

Chemical Base:

1 part Polyurethane, moisture curing

Density:

0.018 – 0.024kg/l (=18-24kg/m³)

Skinning Time:

9 ± 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 cured after 12 hours (+23°C/50% r.h.).

Service Temperature:

-30°C to +80°C (temporary up to +100°C)

Heat Conductivity:

~0.0405 W/mK

Mechanical/Physical Properties

Compressive Strength:

~ 0.06 ± 0.02 N/mm² with 10% deformation (+23°C/50% r.h.)

Shear Strength:

~ 0.04 ± 0.02 N/mm² (+23°C/50% r.h.)

Tensile Strength:

~ 0.09 N/mm² (+23°C/50% r.h.)

Elongation at Break:

~35% ±5% (+23°C/50% r.h.)

Application Details

Consumption

Consumption can be regulated by adjusting the pressure valve of the Sika Boom-G Dispenser gun.

Yield:

750 ml can up to 48 l (+/- 3 l)

Substrate Quality

Clean and dry, homogenous, 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.

Construction



Application Conditions/ Limitations

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

Ambient Temperature Optimum handling temperature: +18°C to +25°C
Permissible handling temperature: +5°C min/ +35°C max.

Relative Air Humidity Between 30% and 100%

Application Instructions

Application Method

- Shake the can thoroughly before use (~ 20 times).
- Remove the small black lid from the Sika Boom-G aerosol can. Screw the Sika Boom-G can on to the Sika Boom-G Dispenser. Gently press the trigger of the Sika Boom-G Dispenser to apply the foam. Where small gaps have to be filled use the extension tube supplied (the foam flow rate is lower with the extension tube).
- Take care to allow each layer to cure sufficiently by spraying water or allowing sufficient waiting time between the layers.
- Do not fill up hollow sections completely 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.
- Do not take the Sika Boom-G can off of the Sika Boom-G Dispenser unless absolutely necessary. Taking the can off of the Sika Boom-G Dispenser, without thorough cleaning with Sika Boom-Cleaner can lead to premature curing and non-functioning of the Sika Boom-G Dispenser. The safest way is to keep the Sika Boom-G can mounted onto the Sika Boom-G Dispenser until empty.

Cleaning of 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

- The aerosol can temperature has to be +5°C min. and + 25°C max. For optimum flow and expansion the aerosol can temperature should be +18°C to +25°C.
- Protect the can from direct sun and temperatures above +50°C (danger of explosion). For the correct curing of the foam sufficient moisture is necessary.
- Do not use on PE, PP, Teflon, Silicone, Oil, Grease and other separating agents.
- Foam is not resistant to UV light.
- Read the safety and technical recommendations printed on the aerosol-can.

Notes All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measure 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 & Safety Information

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 Material 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.



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