BUILDING TRUST

PRODUCT DATA SHEET

Sika Boom® G

Highly expansive, gun applied polyurethane fixing foam

BRANZ Appraised
Appraisal No.452 [2019]

DESCRIPTION

Sika Boom® G is a 1-component, fast curing, gun applied polyurethane foam with a very high expansion rate.

USES

Sika Boom® G is designed for fixing, insulating and filling connection joints around window and door frames, air-conditioning vents and roller blind housings.
Sika Boom® G allows insulation against noise, cold and draughts after a single application.

CHARACTERISTICS / ADVANTAGES

- 1-Component
- Easy application with application gun
- High expansion rate and yield
- Fast curing
- Very good thermal insulation
- Effective sound dampening
- HFC-free
- Suitable for application at lower temperatures (+5°C)

APPROVALS / STANDARDS

BRANZ Appraised No. 452 [2024] for use as an airseal
NZ Building Code Compliant
- B2 Durability: Clauses B2.3.1 (b) 15 years. (c) 5 years
- E3 Internal Moisture: Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6
- F2 Hazardous Building Materials: Clause F2.3.1

PRODUCT INFORMATION

Chemical Base	1-Component polyurethane
Packaging	750 ml can with rubber valve, 12 cans per box
Colour	Light yellow
Shelf Life	Sika Boom® G has a shelf life of 12 months from the date of production, if stored properly in undamaged, original, sealed packaging, and if the storage conditions are met. Opened cans of Sika Boom® G must be used within 4 weeks.
Storage Conditions	Sika Boom® G shall be stored in an upright position, in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.
Density	~20 kg/m³

TECHNICAL INFORMATION

Compressive Strength	~0.04 N/mm² (with 10 % deformation)	(ISO 844)

Tensile Strength	~0.08 N/mm²	(ISO 1926)
Shear Strength	~0.04 N/mm²	(ISO 1922)
Dimensional Stability	± ~5 %	
Joint Permeability to Water Vapour	μ = 14, sd = 0.83 m (d = 49 mm, ρ = 13 kg/m³)	(ISO 12572)
Thermal Conductivity	~0.0405 W/mK	(EN 12667)
Sound Insulation	$R_{ST,w}$ ($C;C_{tr}$) = 61 (−1; −4) dB	(ift SC-01/2)
Service Temperature	−40 °C min. / +80 °C max.	

APPLICATION INFORMATION

Yield	750 ml can	~48 l
	Consumption can be regulated by adjusting the pressure on the trigger or by tightening or loosening the screw of the application gun.	
Ambient Air Temperature	Optimum	+18 °C min. / +25 °C max.
	Permissable	+5 °C min. / +35 °C max.
Relative Air Humidity	30 % min. / 95 % max.	
Substrate Temperature	Optimum	+18 °C min. / +25 °C max.
	Permissable	+5 °C min. / +35 °C max.
Cutting Time	~20 min (after which a 20 mm bead can be cut). Sika Boom® G is fully cured after 12 h.	
Tack Free Time	~9 min	

BASIS OF PRODUCT DATA

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.

FURTHER DOCUMENTS

- Safety Data Sheet
- BRANZ Appraisal Certificate No. 452 [2007]

LIMITATIONS

- The minimum can temperature for application must be +10 °C.
- In order to get a good quality foam, the can temperature should not vary more than 10 °C from the ambient temperature.
- Protect the can from direct sunlight and temperatures above +50 °C (danger of explosion).
- For correct curing of the foam, moisture is necessary.
- Applying insufficient moisture may lead to subsequent unintended foam expansion (post expansion).
- Do not fill hollow sections completely as the foam expands during curing.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease and other separating agents.
- Sika Boom® G is not resistant to UV light.
- Read all safety and technical recommendations which are printed on the Sika Boom® G can.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

For the application of Sika Boom® G all generally accepted rules of building and construction apply.

SUBSTRATE PREPARATION

The substrate must be clean, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. Sika Boom® G adheres without primers and/or activators.
Pre-dampen the substrate with clean water, this ensures that the foam cures properly and also prevents secondary foam expansion.

APPLICATION METHOD / TOOLS

Shake the Sika Boom® G can well for minimum 20 seconds before use. Repeat shaking after long interruptions of use. Remove the small black lid from the Sika Boom® G aerosol can. Screw Sika Boom® G onto

the valve of the application gun. The amount of expanding foam extruded can be regulated by applying more or less pressure on the trigger or by tightening or loosening the screw of the application gun. Fill deep joints in several layers. Take care to allow each layer to cure and expand sufficiently by spraying water between each layer or allowing sufficient waiting time between the layers. Do not fill hollow sections completely as the foam expands during curing. Where small gaps have to be filled use an extension tube (consider that the foam flow rate is lower with an extension tube). All building elements must be temporarily fixed until the foam has fully cured. Do not take the Sika Boom® G can off the application gun. Removing the can without thorough cleaning with Sika Boom® Cleaner will damage the application gun.

CLEANING OF TOOLS

Clean all tools and application equipment immediately with Sika Boom®-Cleaner or Sika® Wonder Wipes. Once cured, residual material can only be removed mechanically.

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.

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. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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