

# BUILDING PRODUCT INFORMATION SHEET

## Sika Boom<sup>®</sup>

### Multi-position, highly expansive polyurethane fixing foam

#### DESCRIPTION

Sika Boom<sup>®</sup> is a 1-component, fast curing polyurethane foam suitable for multi-position applications.

#### USES

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

#### FEATURES

- 1-Component
- Multi-positioning foam; application in all positions (360°)

- Easy application with nozzle
- High expansion rate
- Fast curing
- Very good thermal insulation
- Effective sound dampening
- HFC-free

#### APPROVALS / CERTIFICATES

- TÜV certificate, tested according PPP 53248B:2010 (gold valve)
- BRANZ Appraised No. 452 [2019] for use as an airseal

#### PRODUCT INFORMATION

<b>Product Identifier</b>	Sika Boom <sup>®</sup>
<b>Place of manufacture</b>	Overseas
<b>Composition</b>	1-Component polyurethane
<b>Packaging</b>	250 ml can with rubber valve, 12 cans per box 500 ml can with gold valve, 12 cans per box 750 ml can with gold valve, 12 cans per box
<b>Shelf life</b>	Sika Boom <sup>®</sup> has a shelf life of 15 months for gold valve cans and 12 months for rubber valve cans 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 <sup>®</sup> must be used within 4 weeks.
<b>Storage conditions</b>	Sika Boom <sup>®</sup> shall be stored in an upright position, in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.
<b>Colour</b>	Light yellow
<b>Density</b>	~20 kg/m <sup>3</sup>

#### TECHNICAL INFORMATION

<b>Compressive strength</b>	~0.05 N/mm <sup>2</sup> (with 10 % deformation)	(ISO 844)
<b>Tensile strength</b>	~0.1 N/mm <sup>2</sup>	(ISO 1926)
<b>Tensile strain at break</b>	~28 %	(ISO 1926)

<b>Shear strength</b>	~0.04 N/mm <sup>2</sup>	(ISO 1922)
<b>Dimensional stability</b>	± ~5 %	
<b>Thermal conductivity</b>	~0.04 W/mK	(EN 12667)
<b>Sound insulation</b>	$R_{ST,w} (C; C_{tr}) = 61 (-1; -4)$ dB	(ift SC-01/2)
<b>Service temperature</b>	-40 °C min. / +80 °C max.	
<b>Water absorption</b>	< 1 % volume (cut surface)	(DIN EN 12087)
<b>Joint permeability to water vapour</b>	$\mu = 21, sd = 1.0$ m (d = 49 mm, $\rho = 19.5$ kg/m <sup>3</sup> )	(ISO 12572)

## APPLICATION INFORMATION

<b>Yield</b>	750 ml can	~37 l
	500 ml can	~24 l
	250 ml can	~12 l
	Consumption can be regulated by adjusting the pressure on the trigger.	
<b>Ambient air temperature</b>	Optimum	+18 °C min. / +25 °C max.
	Permissible	-10 °C min. / +40 °C max.
<b>Relative air humidity</b>	30 % min. / 95 % max.	
<b>Substrate temperature</b>	Optimum	+18 °C min. / +25 °C max.
	Permissible	+5 °C min. / +40 °C max.
<b>Cutting time</b>	~23 min (after which a 20 mm bead can be cut). Sika Boom® is fully cured after 12 h.	
<b>Tack free time</b>	~9 min	

## MANUFACTURER AND IMPORTER INFORMATION

<b>Manufacturer information</b>	Address	Hago PU GmbH, Bodensee Strasse 217, D-81243 Munich, Germany
<b>Importer information</b>	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	<a href="https://nzl.sika.com/">https://nzl.sika.com/</a>
	Email address	info@nz.sika.com
	NZBN	9429000018791

## BUILDING CODE INFORMATION

<b>Building Code clauses</b>	B2 Durability: Performance clause B2.3.1 - (b) 15 years E2 External Moisture: Performance clause E2.3.2 F2 Hazardous Building Materials: Performance clause F2.3.1
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## Building Code compliance statements

Performance B2.3.1 (b) 15 years: The BRANZ appraisal for this product states that, in their opinion, it achieves this durability requirement, when installed and maintained in accordance with the BRANZ Appraisal and relevant Sika technical literature. [nzl.sika.com](http://nzl.sika.com). According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2002.

Performance E2.3.2: The BRANZ appraisal for this product [nzl.sika.com](http://nzl.sika.com) states that, as a self expanding polyurethane foam, this product, in their opinion, meets the requirements for an air seal between the wrapped opening and the frame around windows, doors and other penetration openings in accordance with E2/AS1 and E2/AS3

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet [nzl.sika.com](http://nzl.sika.com) for further information if required

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

- 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® is not resistant to UV light.
- Read all safety and technical recommendations which are printed on the Sika Boom® 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

### DESIGN REQUIREMENTS

There are no specific Sika design instructions for this product, when used as a general purpose adhesive. Refer to the product data sheet for general information at [nzl.sika.com](http://nzl.sika.com)

## 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® 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.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately with Sika Boom®-Cleaner and/or Sika® Remover-208. Once cured, residual material can only be removed mechanically.

## MAINTENANCE REQUIREMENTS

There are no maintenance requirements for this Sika product

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## 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 dis-

claimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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