

## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-157 All Seasons

Nozzle applied self-expanding chlorinated paraffin-free polyurethane foam for all seasons



### DESCRIPTION

Sika Boom<sup>®</sup>-157 All Seasons is a polyurethane, 1-part, nozzle applied self-expanding foam for all seasons (temperature range -10 °C to +40 °C). It is chlorinated paraffin and halogen free. The special formulation allows application on cold surfaces and at low environmental temperatures.

### USES

The Product is designed for:

- Insulating and filling cavities and voids
- Filling joints around window and door frames
- Insulating against noise, cold and draughts
- Filling around pipes or conduit penetrations

The Product can be used for interior and exterior applications.

### CHARACTERISTICS / ADVANTAGES

- Can be applied at temperatures between -10 °C and +40 °C
- Easy application with nozzle
- Good thermal insulation
- Does not contain chlorinated paraffins or halogens
- Good adhesion to many construction materials
- Effective sound dampening
- Can be cut, trimmed, sanded and painted

### SUSTAINABILITY

- VOC emission classification GEV-Emicode EC1<sup>PLUS</sup>
- VOC emission classification of building materials RTS M1
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- DGNB - New buildings and extensive renovations, version 2020-2.0.0 and 2023: The product complies with the requirements of indicator 38, quality level 2 according to criteria matrix for ENV1.2/Environmentally hazardous substances.

### PRODUCT INFORMATION

<b>Composition</b>	Polyurethane foam	
<b>Packaging</b>	<b>Box content</b>	<b>Canister specification</b>
	12 canisters per box	750 ml or 500 ml, rubber valve
	20 canisters per box	250 ml, rubber valve
<b>Colour</b>	Light yellow	
<b>Shelf life</b>	12 months from the date of production.	

**Storage conditions** The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Store in an upright position. Protect the canister from direct sunlight and temperatures above +50 °C (danger of exploding). Always refer to packaging.

<b>Density</b>	Cured product	~24 kg/m <sup>3</sup>	(FEICA TM 1019)
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## TECHNICAL INFORMATION

<b>Compressive strength</b>	Dry	~4.5 N/cm <sup>2</sup>	(FEICA TM 1011)
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<b>Tensile strength</b>	Dry	~11.0 N/cm <sup>2</sup>	(FEICA TM 1018)
	Wet	~9.0 N/cm <sup>2</sup>	

<b>Elongation at break</b>	Dry	~20 %	(FEICA TM 1018)
	Wet	~16 %	

<b>Shear strength</b>	Wet	~5.5 N/cm <sup>2</sup>	(FEICA TM 1012)
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<b>Dimensional stability</b>	Dry	~ ± 5 %	(FEICA TM 1004)
	Wet	~ ± 5 %	

<b>Post expansion</b>	~130 %	(FEICA TM 1010)
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<b>Resistance to UV exposure</b>	Not permanently UV stable
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<b>Thermal conductivity</b>	0.038 W/(mK)
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<b>Service temperature</b>	Minimum	-40 °C
	Maximum	+60 °C

## APPLICATION INFORMATION

<b>Yield</b>	Foam (box) yield, 250 ml canister	~10 L	(FEICA TM 1003)
	Foam (box) yield, 500 ml canister	~22 L	
	Foam (box) yield, 750 ml canister	~36 L	
	Joint yield, 250 ml canister	~7 m	(FEICA TM 1002)
	Joint yield, 500 ml canister	~15 m	
	Joint yield, 750 ml canister	~23 m	
Joint yield based on 20 mm × 50 mm joint			

<b>Material temperature</b>	Optimum	+20 °C
	Minimum	+5 °C
	Maximum	+30 °C

<b>Ambient air temperature</b>	Optimum	+20 °C
	Minimum	-10 °C
	Maximum	+40 °C

<b>Substrate temperature</b>	Optimum	+20 °C
	Minimum	-10 °C
	Maximum	+40 °C

<b>Cutting time</b>	~70 min (time after which a 30 mm bead can be cut)	(FEICA TM 1005)
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<b>Tack free time</b>	~8 min	(FEICA TM 1014)
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## 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.

## IMPORTANT CONSIDERATIONS

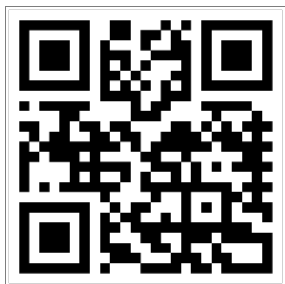
- Moisture is necessary to harden the foam.
- Insufficient moisture can lead to subsequent unintended foam expansion (post-expansion).
- Do not use for mechanical or structural fastening purposes.
- Sika Boom®-157 All Seasons does not adhere to polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon) and silicone, oil, grease and other release agents.
- Is not resistant to UV light.

## 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.

### Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit [www.sika.com/pu-training](http://www.sika.com/pu-training).



## APPLICATION INSTRUCTIONS

For the application of Sika Boom®-157 All Seasons all generally accepted rules of building and construction apply.

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## SUBSTRATE PREPARATION

The substrate must be clean, sound, firm, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. The Product adheres without primers and/ or activators to most building materials such as wood, concrete, brick, metal or aluminium. For non-conventional substrates a preliminary adhesion test is recommended.

## MIXING

Shake the Sika Boom®-157 All Seasons can well and at least 20 times before use. Shake the can every time it has been unused for a long time.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika Boom® Cleaner or Sika® Remover-208 immediately after use. Hardened material can only be mechanically removed.

## LOCAL RESTRICTIONS

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

## LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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