

PRODUCT DATA SHEET

Sika Boom[®]-557 All Seasons

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



DESCRIPTION

Sika Boom[®]-557 All Seasons is a polyurethane, 1-part, gun 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
- Professional application with dispenser gun
- 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^{PLUS}
- 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

Composition	Polyurethane foam	
Packaging	Box content 12 canisters per box	Canister specification 750 ml, rubber valve
Colour	Light yellow	
Shelf life	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.

Density	Cured product	~21 kg/m ³	(FEICA TM 1019)
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TECHNICAL INFORMATION

Compressive strength	Dry	~4.0 N/cm ²	(FEICA TM 1011)
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Tensile strength	Dry	~10.0 N/cm ²	(FEICA TM 1018)
	Wet	~7.5 N/cm ²	

Elongation at break	Dry	~13 %	(FEICA TM 1018)
	Wet	~14 %	

Shear strength	Wet	~5.0 N/cm ²	(FEICA TM 1012)
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Dimensional stability	Dry	~ ± 5 %	(FEICA TM 1004)
	Wet	~ ± 5 %	

Post expansion	~80 %	(FEICA TM 1010)
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Resistance to UV exposure	Not permanently UV stable
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Thermal conductivity	0.0405 W/(mK)
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Service temperature	Minimum	-40 °C
	Maksimum	+80 °C (briefly up to +100 °C)

APPLICATION INFORMATION

Yield	Foam (box) yield, 750 ml canister	~44 L	(FEICA TM 1003)
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Joint yield, 750 ml canister	~23 m	(FEICA TM 1002)
Joint yield based on 20 mm × 50 mm joint		

Material temperature	Optimum	+20 °C
	Minimum	+5 °C
	Maximum	+30 °C

Ambient air temperature	Optimum	+20 °C
	Minimum	-10 °C
	Maximum	+40 °C

Substrate temperature	Optimum	+20 °C
	Minimum	-10 °C
	Maximum	+40 °C

Cutting time	~35 min (time after which a 30 mm bead can be cut)	(FEICA TM 1005)
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Tack free time	~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.

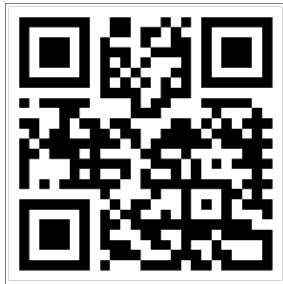
- Insufficient moisture can lead to subsequent unintended foam expansion (post-expansion).
- Do not use for mechanical or structural fastening purposes.
- Sika Boom®-557 All Seasons does not adhere to polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon) and silicone, oil, grease 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.



APPLICATION INSTRUCTIONS

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®-557 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

1. Clean the application gun by screwing Sika Boom® Cleaner onto the thread of the application gun.
2. Press the trigger to clean it.

IMPORTANT

Do not leave the Sika Boom® Cleaner screwed on the application gun, as the valve could be damaged.

Clean any other tools or 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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