

PRODUCT DATA SHEET

Sika Boom[®]-557 All Seasons

POLYURETHANE SELF-EXPANDING GUN APPLIED FOAM FOR ALL SEASONS



DESCRIPTION

Sika Boom[®]-557 All Seasons is a polyurethane, 1-part, 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. A consistent foam structure is produced even at low humidity. The cured foam can be cut, trimmed, sanded and painted. Internal and external use.

USES

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

CHARACTERISTICS / ADVANTAGES

- Temperature range -10 °C to +40 °C
- Professional application with dispenser gun
- High thermal insulation
- Effective sound dampening
- Good adhesion to many construction materials

SUSTAINABILITY

- VOC emission classification GEV-EMICODE EC 1^{PLUS}
- VOC emission classification of building materials RTS M1

PRODUCT INFORMATION

Composition	Polyurethane foam
Packaging	750 ml pressurised canister with rubber valve: 12 canisters per box Refer to current price list for packaging variations.
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	~21 kg/m ³ (FEICA TM 1019)

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TECHNICAL INFORMATION

Compressive Strength	dry	~4,0 N/cm ²	(FEICA TM 1011)
Tensile Strength	dry	~10 N/cm ²	(FEICA TM 1018)
	moistened	~7,5 N/cm ²	(FEICA TM 1018)
Shear Strength	~5 N/cm ²		(FEICA TM 1012)
Dimensional Stability	± ~5 %		(FEICA TM 1004)
Post Expansion	~80 %		(FEICA TM 1010)
Light and Thermal Resistance	Not permanently UV-stable		
Service Temperature	-40 °C min. / +80 °C max. (briefly up to +100 °C)		

APPLICATION INFORMATION

Yield	750 ml canister:		
	Box Yield	~44 l	(FEICA TM 1003)
	Joint Yield*	~23 m	(FEICA TM 1002)
*Based on 20 x 50 mm joint.			
Product Temperature	The minimum canister temperature for application must be +5 °C. For optimal results, condition the canister to +20 °C.		
Ambient Air Temperature	Optimum	+20 °C	
	Permissible	-10 °C min. / +40 °C max.	
Substrate Temperature	Optimum	+20 °C	
	Permissible	-10 °C min. / +40 °C max.	
Curing Time	Fully cured after 24 hours		
Cutting Time	~35 min		(FEICA TM 1005)
Tack free time	~8 min		(FEICA TM 1014)

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. Sika Boom®-557 All Seasons adheres without primers and/or activators.

MIXING

Shake the Sika Boom®-557 All Seasons canister well for a minimum 20 times before use. Repeat shaking after long interruptions of use.

APPLICATION METHOD / TOOLS

After shaking the canister, remove the cap from the Sika Boom®-557 All Seasons canister as well as the lid of the ring on top. Screw Sika Boom®-557 All Seasons onto the thread of the application gun.

The amount of expanding foam extruded can be regulated by applying more or less pressure on the gun trigger or by using the application gun flow adjustment screw.

Fill deep joints in several layers. Allow each layer to expand and harden sufficiently before pre-dampening with water again for next layer application.

Only partially fill voids / cavities as the foam expands during curing.

When used for bonding vertical / horizontal building components. They must be temporarily supported until the foam has fully cured.

Do not remove the canister from the application gun, unless it is completely empty. Premature removal could lead to foam splashes.

Clean application gun with Sika Boom® Cleaner after use. Removing the canister without thorough cleaning with Sika Boom® Cleaner will damage the application gun.

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CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika Boom® Cleaner or Sika® Remover-208 immediately after use. Clean the application gun by screwing Sika Boom® Cleaner onto the thread of the application gun and clean according to instructions. Do not leave the Sika Boom® Cleaner screwed on the application gun, as the valve could become damaged. Hardened material can only be mechanically removed. For cleaning skin use Sika® Cleaning Wipes-100.

IMPORTANT CONSIDERATIONS

- Moisture is necessary to cure the foam.
- Insufficient moisture may lead to subsequent unintended foam expansion (post-expansion).
- Do not use for mechanical or structural fixing purposes.
- Sika Boom®-557 All Seasons does not bond onto polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease or release agents.
- Not resistant to UV-light.

BASIS OF PRODUCT DATA

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

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.

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.

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.