



PRODUCT DATA SHEET

Sika Boom®-180

1" GAPS AND CRACKS POLYURETHANE FOAM

PRODUCT DESCRIPTION

Sika Boom®-180 is a polyurethane, 1-part, self-expanding foam made for easy application for general purposes up to 1".

WHERE TO USE

The Product is designed for:

- Insulating and filling gaps and cracks
- Insulating against noise, cold and draughts
- Filling around pipes or conduit penetrations

The Product can be used for interior and exterior applications.

CHARACTERISTICS / ADVANTAGES

- Easy application with nozzle
- Effective sound dampening
- Good thermal insulation
- Good adhesion to many construction materials (wood, metal, masonry, glass, many different plastics...)
- 1-part ready to use
- Can be cut, trimmed, sanded and painted

PRODUCT INFORMATION

Composition / Manufacturing	Polyurethane foam		
Packaging	750 mL (850 g) can / 12 cans per case		
	Refer to the current price list for available packaging variations.		
Colour	Light yellow		
Shelf Life	15 months from the date of production		
Storage Conditions	Stored properly in undamaged, original, sealed packaging . Store in an upright position, in dry conditions, protected from direct sunlight and at temperatures between 5 and 30 °C		
Density	Cured product	~42 kg/m ³	(FEICA TM 1019)

TECHNICAL INFORMATION

Expansion	~145 %	(FEICA TM 1010)
Resistance to UV Exposure	Not permanently UV stable (for best results, the cured foam may be painted	

or coated for outdoor applications.)

Service Temperature	Minimum	-40 °C
	Maximum	+80 °C

APPLICATION INFORMATION

Yield	Foam (box) yield, 750 ml canister	~24 L	(FEICA TM 1003)
	Joint yield, 750 ml canister	~19 m	(FEICA TM 1002)
	Joint yield based on 20 mm × 50 mm joint		
Product Temperature	Optimum	+20 °C	
	Minimum	+5 °C	
	Maximum	+30 °C	
Ambient Air Temperature	Optimum	+20 °C	
	Minimum	+5 °C	
	Maximum	+30 °C	
Substrate Temperature	Optimum	+20 °C	
	Minimum	+5 °C	
	Maximum	+30 °C	
Cutting Time	~80 minutes (time after which a 30 mm bead can be cut)		(FEICA TM 1005)
Tack-free time	~9 minutes		(FEICA TM 1014)

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

Always wear protective eyewear and gloves
KEEP OUT OF REACH OF CHILDREN

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 or activators to most building materials such as wood, concrete, brick, metal or aluminum. For non-conventional substrates a preliminary adhesion test is recommended.

APPLICATION

IMPORTANT

The Product does not bond onto polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease or release agents.

IMPORTANT

Do not use the Product for mechanical or structural fixing purposes.

IMPORTANT

When used for bonding vertical / horizontal building components, they must be supported until the Product has developed sufficient strength.

IMPORTANT

Moisture is necessary to cure the foam. Insufficient moisture may lead to subsequent unintended foam expansion (post-expansion).

IMPORTANT

Be careful when attaching or removing the nozzle. If pressure is applied to the valve, foam splashes may occur.

1. Pre-dampen the substrate with clean water. This ensures that the foam cures properly and also prevents unwanted foam expansion.
2. Shake the canister well for a minimum 20 times before use. Note Repeat shaking after long interruptions of use.
3. Remove the cap from the canister.
4. Screw the nozzle firmly onto the thread of the valve without pressing the trigger or the valve.
5. **IMPORTANT** To ensure proper flow, hold the canister upside down while dispensing. Dispense the foam by pressing the trigger. Note The amount of foam extruded can be regulated by applying more or less pressure on the trigger.
6. **IMPORTANT** Allow each layer to expand and harden sufficiently before pre-dampening with water again for next layer application. Fill deep joints in several layers. Note Fill voids / cavities only partially as the foam expands during curing. Note Small gaps can be filled using an extension tube, this will however reduce the foam flow rate.

Re-Usable Straw: To ensure that the straw can be re-used: 1) set the can upright and 2) while it is still full of foam, fold back the straw over itself and slide the open end onto the plastic tip located above the trigger to a depth of 10 mm. This will keep the straw air-free. When you are ready to re-use the product, simply shake the can, unfold the straw and proceed with spraying.

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CLEAN UP

Clean all tools and application equipment immediately with Sika Boom® Cleaner. Uncured material may be removed from substrates and tools with Sika® Hand Cleaner. Once cured, residual material can only be removed mechanically. Refer to Sika Boom® Cleaner product data sheet for further information.

LOCAL RESTRICTIONS

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

Product Data Sheet

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