

PRODUCT DATA SHEET

Sika Boom[®]-180

General purpose polyurethane self-expanding nozzle applied foam

PRODUCT DESCRIPTION

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

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

- Easy application with nozzle
- Effective sound dampening
- Good thermal insulation
- Good adhesion to many construction materials
- 1-part ready to use
- Can be cut, trimmed, sanded and painted

PRODUCT INFORMATION

Chemical Base	Polyurethane foam		
Packaging	12 canisters per box	750 ml, 500 ml or 300 ml	
	Refer to the current price list for available packaging variations.		
Shelf Life	15 months from 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. Refer to the current Safety Data Sheet for information on safe handling and storage.		
Colour	Light yellow		
Density	Cured product	~42 kg/m ³	(FEICA TM 1019)

TECHNICAL INFORMATION

Expansion	~145 %	(FEICA TM 1010)
Service Temperature	Minimum	-40 °C
	Maximum	+80 °C
UV Exposure	Not permanently UV stable	

APPLICATION INFORMATION

Yield	Foam (box) yield, 300 ml canister	~8 L	(FEICA TM 1003)
	Foam (box) yield, 500 ml canister	~16 L	
	Foam (box) yield, 750 ml canister	~24 L	
	Joint yield, 300 ml canister	~7 m	(FEICA TM 1002)
	Joint yield, 500 ml canister	~13 m	
	Joint yield, 750 ml canister	~19 m	
	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	
Tack Free Time	~9 minutes	(FEICA TM 1014)	
Cutting Time	~80 minutes (time after which a 30 mm bead can be cut)	(FEICA TM 1005)	

VALUE BASE

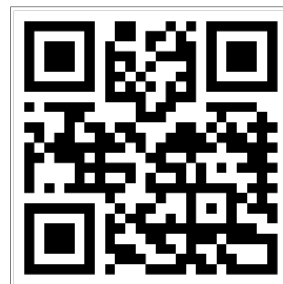
All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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 <https://irl.sika.com/en/knowledge-hub-sika-ireland/pu-training.html>.



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.

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Product Data Sheet

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CLEANING OF TOOLS

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

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.

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