

## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-180

POLYURETHANE SPRAY FOAM FOR GAPS AND CRACKS UP TO 1"

### PRODUCT DESCRIPTION

Sika Boom<sup>®</sup>-180 is a polyurethane, 1-part, self-expanding, foam for easy filling, sealing, and insulating of gaps and cracks up to 1".

### USES

Polyurethane expanding foam for:

- Insulating and filling gaps and cracks
- Filling joints around window and door frames
- Insulating against noise, cold and drafts
- Filling around pipes or conduit penetrations

### CHARACTERISTICS / ADVANTAGES

- Easy application with nozzle
- Effective sound dampening
- Good thermal insulation
- Forms a permanent weather-tight seal
- Resistant to mold
- Waterproof
- Excellent adhesion to many construction materials (wood, metal, masonry, glass, most plastics)
- 1-part ready to use
- Paintable and sandable
- Tack free as fast as 7 minutes
- Can be cut/trimmed as soon 30 minutes
- Indoor & outdoor use

### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyurethane foam		
<b>Packaging</b>	12 cans per box	12 oz (354ml)	
<b>Color</b>	Light yellow		
<b>Shelf Life</b>	15 months from date of production		
<b>Storage Conditions</b>	Store properly in the original, unopened, undamaged, sealed packaging. Store in an upright position, in dry conditions, out of direct sunlight and at temperatures between 41 °F and 77 °F.		
<b>Density</b>	Cured product	~42 kg/m <sup>3</sup>	(ASTM D1622)

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	4.35 psi (30 kPa) - parallel to rise	(ASTM D1621)
<b>Dimensional Stability</b>	±10%	(ASTM D2126)
<b>Tensile Adhesion Strength</b>	11.7 ± 0.8	(ASTM D1623)
<b>Thermal Resistance</b>	R-value 4.0 per inch	
<b>UV Exposure</b>	Not permanently UV stable (for best results, the cured foam may be painted or coated for outdoor applications)	
<b>Service Temperature</b>	Minimum	-40 °F
	Maximum	176 °F
<b>Water Absorption</b>	max. 1 vol%	(ASTM D2842)
<b>Expansion</b>	~145 %	(ASTM C1663)

## APPLICATION INFORMATION

<b>Coverage</b>	12 fl. oz. can yields 28.8 linear ft. of foam (1/4 in. x 1/4 in. bead)	
<b>Product Temperature</b>	Optimal	68 °F
	Minimum	41 °F
	Maximum	86 °F
<b>Ambient Air Temperature</b>	Optimal	68 °F
	Minimum	28 °F
	Maximum	86 °F
<b>Cure Time</b>	24 hours	(ASTM C1620)
<b>Cutting Time</b>	30-45 minutes	(ASTM C1620)
<b>Tack Free Time</b>	7 to 10 minutes	(ASTM C1620)

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

- Use caution when attaching or removing the nozzle. If pressure is applied to the valve, foam splashes may occur.
- Should be kept at room temperature for at least 12 hours before the application.
- Storage above 77°F and below 41°F shortens shelf life.

## LIMITATIONS

- Not resistant to UV rays unless painted, covered, or coated.
- Will not bond to polyethylene (PE), polypropylene (PP), Teflon, and silicone, oil, grease, or release agents.
- Do not use product for mechanical or structural fixing purposes.
- When used for bonding vertical/ horizontal building components, they must be braced until the product has developed sufficient strength.
- Moisture is necessary for curing. Insufficient moisture may lead to subsequent unintended foam expansion (post-expansion).

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

# 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®-180 will adhere 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

1. Pre-dampen the substrate with clean water. This ensures that the foam cures properly and also prevents unwanted foam expansion.
  2. Shake the can well for a minimum 20 times before use.  
**Note:** Repeat shaking after long interruptions of use.
  3. Remove the cap from the can.
  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 can 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 open end onto the plastic tip located above the trigger to a depth of a 1/4 in. 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.

## CLEANING OF TOOLS

Uncured foam can be immediately removed from tools and finished surfaces using an approved solvent (e.g. Acetone, MEK, or Xylene). Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

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**Product Data Sheet**  
Sika Boom®-180  
June 2026, Version 04.02  
02051406000000306

# OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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