



**PRODUCT DATA SHEET**

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SPRAYED FOAM AIR BARRIER

# Sika Boom® ARCTIC

## MULTIPURPOSE, GUN-APPLIED POLYURETHANE FOAM FOR EXTREME COLD CONDITIONS

<b>Description</b>	Sika Boom® ARCTIC is a one-component, low expansion, CFC-free polyurethane foam, with dispenser gun and specially formulated for applications in extreme cold conditions.
<b>Where to Use</b>	Thanks to a special formulation, Sika Boom® ARCTIC is ideal for applications in extreme cold conditions and in temperature-controlled environments (refrigerated warehouses, commercial freezers, etc.) Typical applications include : <ul style="list-style-type: none"> <li>▪ Filling and sealing of penetrations (pipes and ducts) from utilities in walls and floors (water, gas, etc.)</li> <li>▪ Air sealing and insulating.</li> <li>▪ Filling of penetration in walls.</li> <li>▪ Filling gaps and voids (ex. formwork).</li> <li>▪ Installation of window and door frames.</li> <li>▪ Sealing out dust, noise and draft.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ May be applied year around at temperatures between -25 °C and 30 °C.</li> <li>▪ High yield up to 70L depending on temperature and humidity.</li> <li>▪ Low expansion helps prevent bowing or warping of window frames and other elements.</li> <li>▪ Precision and comfort of application thanks to the Sika Boom® PRO Dispenser gun.</li> <li>▪ Fast and easy cleaning thanks to Sika Boom® PRO Cleaner.</li> <li>▪ Environmentally Friendly: CFC and HCFC-free.</li> <li>▪ Low VOC, less than 2.0 g/L (LEED - SCAQMD, Rule 1168).</li> </ul>
<b>Technical Data</b>	
Packaging	750 mL (1020 g) can / 12 cans per case
Colour	Light Yellow
Yield	65 L (± 5 L) , depending on temperature and humidity
Shelf Life	15 months from the date of production, if it is stored properly in undamaged, original, sealed packaging and if storage conditions are met.
Storage Conditions	Product must be stored in an upright position, in dry conditions, protected from direct sunlight and at temperatures between 5 °C and 30 °C.
<b>Properties</b>	
Density	19±3 Kg/m³ (ASTM 1622)
Tack-Free time (1 cm width)	6±2 min (ASTM 1622)
Cutting Time (1 cm width)	20-45 min (ASTM 1622)
Cure Time	24 hours
Water Absorption	1 % volume
R-Factor	4.7 per inch approx. / 0.036 W/m.k (at 20 °C)
Service Temperature	- 40 °C to 80 °C
Application Temperature	- 25 °C to 30 °C
<i>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.</i>	

**HOW TO USE**

**Surface Preparation** The substrate must be clean, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. Sika Boom® ARCTIC adheres without primers and/or activators. Pre-dampen the substrate with clean water, this ensures that the foam cures properly and also prevents secondary foam expansion.

**Application Method** Safety eyewear and gloves are always recommended when using this product. Shake Sika Boom® ARCTIC can well for about 60 seconds before use. Repeat shaking after long interruptions of use. Remove the black tab from the top of the can. Turn Sika Boom® ARCTIC can upside down and screw onto the valve of the Sika® PRO Dispenser gun then gently press the trigger to purge any air from the gun before applying. The can must remain upside down at all times while dispensing. The consumption can be regulated by applying more or less pressure on the trigger or by tightening or loosening the screw on the Sika® PRO Dispenser gun. Fill the cavity approximately 50 % to allow for expansion. Unfinished cans of Sika Boom® ARCTIC should be left on the gun so that they may be reused at a later time. Unfinished cans should typically be used up within two (2) weeks.

<b>Clean Up</b>	Clean all tools and application equipment immediately with Sika Boom® PRO 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® PRO Cleaner product data sheet for further information.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>▪ Storage above 30 °C and below 5 °C shortens shelf life.</li> <li>▪ Do not store cans in direct sunlight. Do not expose cans to temperatures greater than 50 °C.</li> <li>▪ Should be stored and transported in vertical position.</li> <li>▪ Product should be preconditioned at minimum 5 °C.</li> <li>▪ Cured foam will discolour if exposed to ultraviolet light.</li> <li>▪ Paint or coat cured foam for best results in outdoor applications.</li> <li>▪ Lower temperatures decrease yield and curing time.</li> </ul>
<b>Health and Safety Information</b>	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.

KEEP OUT OF REACH OF CHILDREN

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, within their shelflife. 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](http://www.sika.ca)

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