

PRODUCT DATA SHEET

Sika Boom[®]-140

Multi-purpose expansive polyurethane foam

DESCRIPTION

Sika Boom[®]-140 is a 1 component, expansive polyurethane foam suitable for multi-purpose applications.

USES

Sika Boom[®]-140 is design for bonding, fixing, insulating, filling connection joints around window and door frames, pipe entries, air conditioning vents.

Sika Boom[®]-140 allows insulation against noise, heat, cold and draughts after the application.

CHARACTERISTICS / ADVANTAGES

- High expansion rate
- Exquisite foam
- Good thermal insulation
- Safety and health. Free of formaldehyde, xylene, no toxic
- Fast curing, easy application
- Good adhesion to many construction materials
- Can be cut, sanded and over painted

APPROVALS / STANDARDS

JC / T 936-2004

PRODUCT INFORMATION

Composition	Polyurethane
Packaging	750 ml can, 12 cans per box
Colour	Light yellow
Shelf Life	Sika Boom [®] -140 has a shelf life of 12 months from the date of production, if stored properly in undamaged, original, sealed packaging, and if the storage conditions are met.
Storage Conditions	Sika Boom [®] -140 shall be stored in an upright position, in dry conditions, protected from direct sunlight and at temperature between +18 °C and +25 °C.
Density	(19 ± 5) kg/m ³

TECHNICAL INFORMATION

Compressive Strength	~0.1 N/mm ² (with 10 % deformation)	(ISO 844)
Tensile Strength	~0.012 N/mm ²	(ISO 1926)
Shear Strength	~0.04 N/mm ²	(ISO 1922)
Dimensional Stability	± ~5 %	

Thermal Conductivity	~0.047 W/ m.K	(EN 12667)
Service Temperature	-30 °C min. / +80 °C max.	
Expansion	500 ml	~30
	750 ml	~42

APPLICATION INFORMATION

Yield	500 ml	~15 L
	750 ml	~31.5 L
Ambient Air Temperature	Optimum	+20 °C
	Permissible	+5 °C min. / +40 °C max.
Substrate Temperature	Optimum	+20 °C
	Permissible	+5 °C min. / +40 °C max.
Curing Time	Sika Boom®-140 is fully cured after 24h.	
Cutting Time	~30–60 minutes (Depending on the foam thickness, ambient and substrate temperature).	
Tack Free Time	~10 minutes (depending on ambient humidity and temperature levels).	

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- The minimum can temperature for application must be +5 °C.
- In order to get a good quality foam, the can temperature should not vary more than 10 °C from the ambient temperature.
- Protect the can from direct sunlight and temperature above +50 °C (danger of explosion).
- For correct curing of the foam, moisture is necessary. Applying insufficient moisture may lead to subsequent unintended foam expansion (post expansion).
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE/ Teflon), and silicone, oil, grease and other separating agents.
- Sika Boom®-140 is not resistant to UV light.
- Read all safety and technical recommendations which are printed on the Sika Boom®-140 can.
- **Product must be stored in vertical position.**

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.

APPLICATION INSTRUCTIONS

SUBSTRATE 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®-140 adheres without primers and/ or activators. Pre-dampen the substrate with a mist spray of clean water, this ensures that the foam cures properly and also prevents secondary foam expansion.

APPLICATION METHOD / TOOLS

Shake the Sika Boom®-140 can well for minimum 60 seconds before use. Repeat shaking after long interruptions of use. Pre-dampen the substrate with clean water, this ensures that the foam cures properly and also prevents secondary foam expansion.

Gun type: Turn the canister upside down and fix it at the nozzle connection port, open the valve counter-clockwise. The amount of expanding foam extruded can be regulated by applying more or less pressure on the trigger.

Screw type: Screw the plastic nozzle firmly on the thread of the valve.

When used for filling vertical building components, the application should be from bottom to top while the horizontal gap should be filled from one end to the other. Fill deep joints in several layers. Take care to allow each layer to cure and expand sufficiently by spraying water between each layer or allowing sufficient waiting time between the layers. Do not fill hollow sections completely as the foam expands during curing. Where small gaps have to be filled use an extension tube (consider that the foam flow rate is lower with an extension tube). The surface starts to solidify in about 10 minutes, cutting is best after 60 minutes.

Coat the surface with cement mortar, paint or sealant after cutting off the excess foam. All building elements must be temporarily fixed until the foam has fully cured.

CLEANING OF TOOLS

Clean all tools and application equipment immediately with Sika Boom®-Cleaner and/ or Actone. Once cured, residual material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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Product Data Sheet

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