

## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-400 Fire

### PROFESSIONAL FIRE RATED POLYURETHANE EXPANDING FOAM

#### DESCRIPTION

Sika Boom<sup>®</sup>-400 Fire is a 1-component polyurethane expanding foam which meets the highest fire resistance class, EI 240.

The combo can packaging of Sika Boom<sup>®</sup>-400 Fire allows the application by either gun (with adapter) or nozzle.

#### USES

Sika Boom<sup>®</sup>-400 Fire is designed for sealing of joints in walls that require fire protection. Due to its resistance to fire for more than 300 minutes, Sika Boom<sup>®</sup>-400 Fire is the preferred product of professional applicators for use in building constructions where the highest fire regulations are required.

#### CHARACTERISTICS / ADVANTAGES

- 1-Component
- Combo can packaging for gun (with adapter) or nozzle application
- Resistant to temperatures between -40 °C and +90 °C

#### APPROVALS / STANDARDS

- EN 1366-4 assessment report
- EN 13501-2 classification report

#### PRODUCT INFORMATION

<b>Chemical Base</b>	1-Component polyurethane	
<b>Packaging</b>	750 ml can with gold valve, 12 cans per box	
<b>Colour</b>	Pink	
<b>Shelf Life</b>	Sika Boom <sup>®</sup> -400 Fire 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. Opened cans of Sika Boom <sup>®</sup> -400 Fire must be used within 4 weeks.	
<b>Storage Conditions</b>	Sika Boom <sup>®</sup> -400 Fire shall be stored in an upright position, in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.	
<b>Density</b>	Gun applied	~28 kg/m <sup>3</sup>
	Nozzle applied	~33 kg/m <sup>3</sup>

## TECHNICAL INFORMATION

Resistance to fire	EI 240	(EN 13501-2)
Service Temperature	-40 °C min. / +90 °C max.	
Joint Design	Width	10-45 mm
	Depth	100-200 mm

For joint dimensioning see EN 13501-2 classification report.

## APPLICATION INFORMATION

Yield	750 ml can gun applied	~33 l
	750 ml can nozzle applied	~28 l
Consumption can be regulated by adjusting the pressure on the trigger or by tightening or loosening the screw of the application gun.		
Ambient Air Temperature	Optimum	+18 °C min. / +25 °C max.
	Permissible	+5 °C min. / +35 °C max.
Substrate Temperature	Optimum	+18 °C min. / +25 °C max.
	Permissible	+5 °C min. / +35 °C max.
Cutting Time	Gun applied	~12 min
	Nozzle applied	~15-40 min
(after which a 20 mm bead can be cut). Sika Boom®-400 Fire is fully cured after 12 h.		
Tack Free Time	Gun applied	~5 min
	Nozzle applied	~6 min

## 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.

## FURTHER DOCUMENTS

- Safety Data Sheet
- EN 1366-4 assessment report
- EN 13501-2 classification report
- Brochure Sika Fire Protection Solutions

## IMPORTANT CONSIDERATIONS

- The minimum can temperature for application must be +10 °C.
- In order to achieve 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 temperatures 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 fill hollow sections completely as the foam expands during curing.

- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease and other separating agents.
- Sika Boom®-400 Fire is not resistant to UV light.
- Read all safety and technical recommendations which are printed on the Sika Boom®-400 Fire aerosol can.

## 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

For the application of Sika Boom®-400 Fire all generally accepted rules of building and construction apply.

### 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®-400 Fire adheres without primers and/or activators. Pre-dampen the substrate with clean water, this ensures that the expanding foam cures properly and also

prevents secondary foam expansion.

## APPLICATION METHOD / TOOLS

### Gun Application:

Shake the Sika Boom®-400 Fire can well for minimum 20 seconds before use. Repeat shaking after long interruptions of use. Separate the nozzle from the adapter. Screw Sika Boom®-400 Fire with the adapter onto the valve of the application gun. The amount of expanding foam extruded can be regulated by applying more or less pressure on the trigger or by tightening or loosening the screw of the application gun. 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). All building elements must be temporarily fixed until the foam has fully cured. Do not take the Sika Boom®-400 Fire can off the application gun. Removing the can without thorough cleaning with Sika Boom® Cleaner will damage the application gun.

### Nozzle Application:

Shake the Sika Boom®-400 Fire can well for minimum 20 seconds before use. Repeat shaking after long interruptions of use. Separate the nozzle from the adapter and remove the adapter from the aerosol can. Screw the nozzle firmly into place without pressing the trigger or the valve. The amount of expanding foam extruded can be regulated by applying more or less pressure on the trigger. 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. 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 Sika® Remover-208. 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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