

## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-114 Multi Purpose

EXPANSIVE POLYURETHANE FIXING, INSULATING AND FILLING MULTI PURPOSE FOAM

### DESCRIPTION

Sika Boom<sup>®</sup>-114 Multi Purpose is a 1-component, fast curing polyurethane foam made for easy application. Suitable for use in hot and tropical climatic conditions.

### USES

Sika Boom<sup>®</sup>-114 Multi Purpose is designed for fixing, insulating and filling connection joints around windows and door frames, pipe entries, air-conditioning vents and electrical equipment. Sika Boom<sup>®</sup>-114 Multi Purpose allows insulation against noise, cold and draughts after a single application.

### CHARACTERISTICS / ADVANTAGES

- 1-Component
- Closed cell structure, resistant to water absorption
- Easy application with nozzle
- High expanding rate
- Fast curing
- Very good thermal insulation
- Effective sound dampening
- CFC free

### SUSTAINABILITY

VOC content < 50 g/L (US EPA Method 24)

### PRODUCT INFORMATION

|                           |  |
|---------------------------|--|
| <b>Composition</b>        | 1-Component polyurethane   |
| <b>Packaging</b>          | 750 ml can with rubber valve, 12 cans per box  |
| <b>Colour</b>             | Light yellow   |
| <b>Shelf life</b>         | Sika Boom <sup>®</sup> -114 Multi Purpose 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> -114 Multi Purpose must be used within 2 weeks. |
| <b>Storage conditions</b> | Sika Boom <sup>®</sup> -114 Multi Purpose 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>            | ~14-30 kg/m <sup>3</sup>   |

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## TECHNICAL INFORMATION

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|-----------------------------|-------------------------------------|
| <b>Compressive Strength</b> | 35 kPa - 100 kPa at 10% compression |
| <b>Elongation at Break</b>  | ~8-20 %                             |
| <b>Water Absorption</b>     | ~0.03 % in volume                   |
| <b>Service Temperature</b>  | -30 °C min. / +80 °C max.           |

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## APPLICATION INFORMATION

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|--------------------------------|--|---------------------------|
| <b>Yield</b>                   | ~5.6 L / 100 mL                            |                           |
| <b>Ambient Air Temperature</b> | Optimal                                    | +20 °C                    |
|                                | Permissible                                | +10 °C min. / +35 °C max. |
| <b>Relative Air Humidity</b>   | 30 % min. / 95 % max.                      |                           |
| <b>Curing Time</b>             | fully cured after 12 h (23 °C / 50 % r.h.) |                           |
| <b>Cutting Time</b>            | ~60 min (23 °C / 50 % r.h.)                |                           |
| <b>Tack free time</b>          | ~15 min (23 °C / 50 % r.h.)                |                           |

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## APPLICATION INSTRUCTIONS

For the application of Sika Boom®-114 Multi Purpose 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®-114 Multi Purpose 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 / TOOLS

Shake the Sika Boom®-114 Multi Purpose can well for minimum 20 seconds before use. Repeat shaking after long interruptions of use. 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 EQUIPMENT

Clean all tools and application equipment immediately with Sika® Remover-208. Once cured, residual material can only be removed mechanically.

## FURTHER INFORMATION

- Safety Data Sheet

## IMPORTANT CONSIDERATIONS

- The minimum can temperature for application must be +10 °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 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®-114 Multi Purpose is not resistant to UV light.
- Read all safety and technical recommendations which are printed on the Sika Boom®-114 Multi Purpose can.

## BASIS OF PRODUCT DATA

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

## 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.

## 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.

## 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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All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
18001.

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