

PRODUCT DATA SHEET

Sika Boom[®]-520 Low Expansion

1-PART, GUN APPLIED, LOW EXPANSION, POLYURETHANE FOAM FOR FITTING AND FILLING

DESCRIPTION

Sika Boom[®]-520 Low Expansion is low expansion, polyurethane foam for fitting and filling. It is applied using an applicator gun and features high yield, easy application and reusability.

USES

- Fixing and insulating of door and window frames, staircases,
- Filling and sealing of gaps, joints, cavities, connections
- Filling of penetrations in walls, around air-conditioning vents
- Insulating electrical outlets and water pipes

CHARACTERISTICS / ADVANTAGES

- Easy application with the Sika[®] dispenser gun
- Easy and precise dosing – small consumption
- Particularly suitable for narrow joints
- Retains elasticity
- Fast curing
- Very low expansion – low expansive
- Adheres to all construction materials, such as wood, concrete, metal, aluminium, aerated concrete, brick
- Excellent temperature insulation
- Effective sound dampening
- Excellent adhesion & filling capacity and high thermal & acoustical insulation value
- Economical consumption thanks to precise application
- High yield up to 45 liters depending on temperature and humidity
- Conforms to fire class B3 according to DIN 4102-1
- Mould-proof, water-proof and over paintable
- Does not adhere to PTFE, PE and silicone

APPROVALS / CERTIFICATES

- Fire class B3 according to DIN 4102-1

PRODUCT INFORMATION

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| Composition | 1-part polyurethane, moisture curing | |
| Packaging | 850 gr can (750 ml) (12 cans per box) | |
| Colour | Light yellow | |
| Shelf life | 12 months from date of production | |
| Storage conditions | Store in undamaged, original, sealed containers, in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C. Storage above +25 °C and below +5 °C shortens shelf life. The can has to be stored in a vertical position! | |
| Density | 19±3 Kg/ m ³ | (ASTM D1622) |
| Compressive Strength | 0,03 N/mm ² (at 23°C / 50% r.h.) | (DIN 53 421) |

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|-----------------------------|-----------------------|-------------------|
| Reaction to Fire | Class B3 | (DIN 4102-Part 1) |
| Water Absorption | < 1% by volume | (DIN 53428) |
| Thermal Conductivity | 0,036 W/m.k (at 20°C) | (DIN 52612) |
| Service Temperature | -40°C to +80°C | |

APPLICATION INFORMATION

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| Consumption | Consumption can be regulated by adjusting the pressure valve of the Sika® Dispenser gun. | |
| Yield | Volume (packaging) 750 ml | Yield (L) 30-45 (ASTM C1536) |
| Ambient Air Temperature | +5°C min. / +30°C max. | |
| Substrate Temperature | +5°C min. / +30°C max. | |
| Curing Time | Full cured after 24 hours (at 23°C / 50% r.h.). | |
| Cutting Time | Width (cm) 1 | Cutting time (min) 20-45 (ASTM C1620) |
| Tack free time | 6±2 min | (ASTM C1620) |

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Substrate must be clean, homogeneous, free from oils and grease, dust and loose or friable particles. Pre-dampen the substrate with clean water, this ensures that the foam cures optimally and prevents secondary foam expansion.

APPLICATION METHOD / TOOLS

Shake the can thoroughly before use (~ 20 times). Remove the small black lid from the Sika Boom®-520 Low Expansion can. Screw the can on to the Sika® Dispenser gun. Gently press the trigger of the Sika® Dispenser gun to apply the foam. The foam should be at room temperature. If the foam is colder, place the can in warm water (max. T = 40 °C) for about 20 min. Where small gaps have to be filled use the extension tube supplied with the product (the foam flow rate is lower with the extension tube). Take care to allow each layer to cure sufficiently. All fixings and components must be temporarily supported until the foam has hardened. Do not take the Sika Boom®-520 Low Expansion can off of the Sika® Dispenser gun unless absolutely necessary. Taking the can off of the Sika® Dispenser gun, without thorough cleaning it with Sika Boom® Cleaner, can lead to premature curing of the foam and malfunctioning. The safest way is to keep the can mounted onto the Sika® Dispenser gun until it empties.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using Sika Boom® Cleaner / Sika® Remover-208. Hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- The aerosol-can temperature has to be +5°C min. and +30°C max. For best workability the aerosol-can temperature must be +20°C.
- The can should be kept in room temperature for at least 12 hours before the application.
- The cans should be stored and transported in vertical position.
- Protect the can from sun and temperatures above +50°C (explosion danger).
- For the proper curing of the foam sufficient moisture is necessary.
- Do not use on PE, PP, Teflon, Silicone, Oil, Grease and other separating agents.
- Cured foam is not resistant to UV light exposure.
- Paint or coat the cured foam for best results in outdoor applications.
- Lower temperatures decrease yield and prolong curing time.
- Read safety and technical recommendations printed on the aerosol-can.

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.

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.

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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