BUILDING TRUST

PRODUCT DATA SHEET

Sika Boom® Insulating Expanding Foam

Gun-grade, highly flexible expanding foam providing acoustic and thermal insulation

PRODUCT DESCRIPTION

Sika Boom® Insulating Expanding Foam is a specially formulated, highly flexible PU foam that absorbs component movement thereby giving an airtight seal to reduce heat loss and improve energy efficiency in buildings. The powerful bond strength and flexibility of Sika Boom® Insulating Expanding Foam gives excellent long term thermal and acoustic insulation by inhibiting cracks from occurring during the expansion and contraction of building materials, such as window frame to wall bonds, giving a hermetically sealed barrier. Designed to be used with a Foam Applicator Gun.

USES

- Window installation (clean, controlled back filling and insulated sealing of window and external roller blind cavities).
- Gap filling of external door frames (must be used in conjunction with mechanical fixings).
- Filling cavities in wall break-through for all types of utilities and services.

CHARACTERISTICS / ADVANTAGES

- Acoustic rated up to 62 dB to EN ISO 717-1.
- Thermal conductivity λ_{10} = 0.036 W/(m*K).
- Certified air permeability: a < 0.1 m^3/[(m h $(daPa)^{2/3}$] to EN 12114:2000.
- Cell structure - fine.

PRODUCT INFORMATION

Packaging	750 ml canisters
Colour	Beige
Shelf Life	12 months from date of manufacture. Once opened, shelf life is reduced to one month from original use.
Storage Conditions	Store upright between +10 °C and +20 °C. Pressurised container. Protect from sunlight and do not expose to temperatures above +50 °C. Do not pierce or burn the can even after use. Store as flammable liquid. Note: Elevated temperatures will reduce shelf life dramatically. Protect from heat and frost.
Compressive Strength	Approx. ~15 kPa dry / ~10 kPa moist (EN 17333-4.1. at 10 % compression)
Tensile Strength	Approx. ~65 kPa dry / ~55 kPa moist (EN 17333-4.2.)
Elongation	Approx. ~37 % dry / ~21 % moist (EN 17333-4.2.)

Expansion	Approx. 50 % (EN 17333-2.3.)
Dimensional Stability	± 3 % (EN 17333-2.1.)
Reaction to Fire	B2 (DIN 4102)
Thermal Resistance	-40 °C to +80 °C (short term up to +100 °C)
Thermal Conductivity	λ_{10} = 0.036 W/(m*K) (EN 17333-5)
Permeability to air	a < 0.1 $m^3/[(m\ h\ (daPa)^{2/3}]$ to EN 12114
Expansion	Approx. 50 %
Yield	Up to 38 L
Product Temperature	+5 °C to +30 °C (optimal temperature +15 °C to +20 °C)
Substrate Temperature	-10 °C to +35 °C (optimal temperature +20 °C)
Cutting Time	Approx. 60 minutes
Tack Free Time	Approx. 8 minutes

VALUE BASE

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.

LIMITATIONS

- Do not over-pressurise container.
- Clean spills immediately with Sika Boom® Foam Cleaner.
- Always clean the gun thoroughly with Sika Boom® Foam Cleaner until the jet is clear of foam. Leave the canister attached until the gun is to be used again.
- Once cured, dry foam must be removed mechanically. No solvent will remove the product.
- It is the users responsibility to determine suitability for use. If in doubt, contact Sika Technical Services for advice.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice o the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Ensure all surfaces are clean, sound and free from dust and loose particles. Moisten surface to be sealed with water. This assists the curing process.

APPLICATION

- Carefully read instructions before use.
- Shake can well before use (about 20 times).
- Attach the can to the gun, remove black cap and screw gun carefully onto the adapter of the can. Take care not to overtighten.
- ALWAYS USE WITH THE CAN UPSIDE DOWN.
- The trigger should be depressed gently to control the foam release. Moisten released foam evenly. In large cavities, moistening layer by layer is recommended. Inadequate wetting and overfilling cavities can cause undesirable subsequent foam expansion.
- Excess wet foam should be removed immediately using Sika Boom® Foam Cleaner.
- Once cured, excess foam can be removed by mechanical means.

CLEANING OF TOOLS

Applicator guns must be cleaned thoroughly after use with Sika Boom® Foam Cleaner until the jet is clear of foam. Leave the canister attached until the gun is to be used again.

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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