

PRODUCT DATA SHEET

SikaDamp®-111

Self-adhesive bitumen foil with hot melt as antiblocking agent

TYPICAL PRODUCT DATA

Chemical base		Polymer modified bitumen, mineral filler
Color (CQP001-1)	mastic layer	Black
Density	mastic layer	1.9 g/cm ³
Total thickness (DIN ISO 1849-1/2)		1.8 – 4 mm
Area weight (CQP008-4)	depending on thickness	3.8 – 7.6 kg/m ²
Application temperature	substrate, product	20 °C – 35 °C
Loss factor (ISO 6721-3)		see diagram
Flammability (DIN 75200)		100 mm/min
Shelf life		4 months

CQP = Corporate Quality Procedure

DESCRIPTION

SikaDamp®-111 is a standard heavy layer, flexible bitumen foil for sound deadening and sound damping applications on steel substrate.

The bitumen foil is filled with mineral material and polymers. SikaDamp®-111 is equipped with a high-grade acrylic based self-adhesive system. A hot melt is applied as antiblocking agent.

For plastic substrates the PSA can be equipped with a chemical barrier foil.

The odor of SikaDamp®-111 is negligible in household appliances in operation up to 80 °C. At higher temperatures, a slight bitumen odor may be perceptible temporarily.

PRODUCT BENEFITS

- Sound deadener
- Sound damping
- Bitumen heavy foil covered with hot melt as antiblocking agent
- Acrylic based pressure sensitive adhesive
- Customized die-cut parts or sheets

AREAS OF APPLICATION

SikaDamp®-111 was initially developed for the noise damping in the field of household appliances, such as dishwashers (steel tub), washing machine, tumble dryer and small appliances. It can as well be used in other industrial fields, where damping with high density bitumen foils is required.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil, water and dust.

Application

For full-surface bonding of the self-adhesive bituminous mats, it is necessary to preheat the mats and the surface to be bonded.

The recommended temperature is at least 25 °C. After removing the release paper and applying the bituminous mat to the substrate, press the mat with a roller to achieve a good wet-out of the pressure sensitive adhesive. The recommended press roll weight is approx. 2 kg.

It is necessary to ensure that all bonding surfaces are rolled in order to achieve a secure bond.

For information regarding typical loss factors, see diagram 1. The layer structure is shown in figure 1.

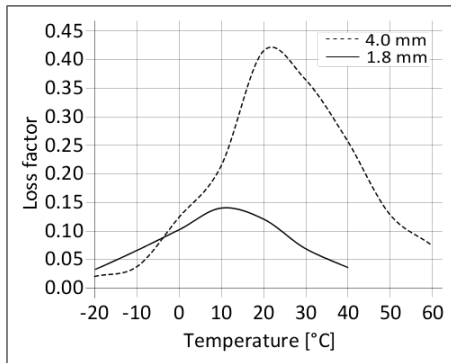


Diagram 1: Loss factor SikaDamp®-111 at 200 Hz

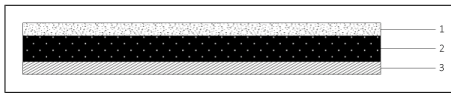


Figure 1: 1) Antiblocking agent, 2) Bitumen heavy foil, 3) PSA

STORAGE CONDITIONS

SikaDamp®-111 has to be stored dry and protected from UV light. The storage temperature is between 0 °C and 35 °C. Consider, that at temperature below 15 °C the bitumen starts to get brittle and can break. Therefore, if products are sourced from a cold storage it must be handled with care.

Ensure that the product has reached the defined application temperature before it is applied. This might be realized by storing the parts for 24 to 48 hours prior application at the assembly line.

Note: Storage outside of standard conditions can affect the shelf life.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Voluntary Safety Information Sheet
 - Application Manual
- For SikaDamp® Applications

PACKAGING INFORMATION

Sika is delivering the finished and die-cut products on returnable steel pallets, whereas the parts are placed in the correct position for further processing.

As alternative wooden one-way packaging, multiuse grid boxes and card boxes would be available.

BASIS OF PRODUCT DATA

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

HEALTH AND SAFETY INFORMATION

This product contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet is therefore not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the Voluntary Safety Information Sheet.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse 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.