

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.

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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.

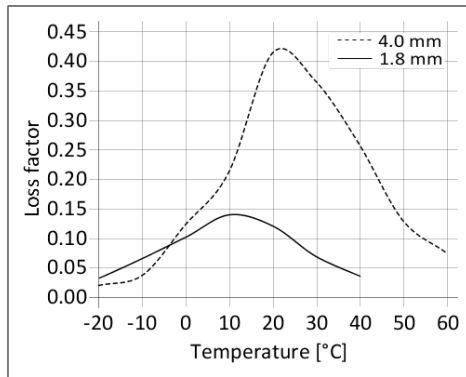


Diagram 1: Loss factor SikaDamp®-111 at 200 Hz

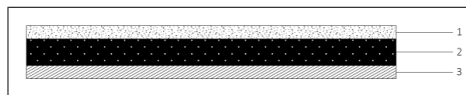


Figure 1: 1) Antiblocking agent, 2) Bitumen heavy foil, 3) PSA

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.

ENVIRONMENTAL, HEALTH AND SAFETY

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.

LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling +1 800-933-7452.

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