

PRODUCT DATA SHEET

SikaDamp[®]-110 FE

Heat fusible bitumen foil with cotton-felt layer

TYPICAL PRODUCT DATA

Chemical base		Polymer modified bitumen, mineral filler
Color (CQP001-1)	bitumen cotton-felt	Black, brown Green, blue
Density	mastic layer. can vary slightly	1.9 g/cm ³
Top layer thickness (DIN ISO 1849-1/2)		10 mm
Total thickness (DIN ISO 1849-1/2)	incl. top layer	12 – 14 mm
Area weight (CQP008-4)	depending on thickness	3.8 – 7.6 kg/m ²
Application temperature	for 30 seconds	115 °C
Loss factor (ISO 6721-3)		see diagram 1
Flammability (DIN 75200)		100 mm/min
Shelf life (CQP016-1)		3 months ^A

CQP = Corporate Quality Procedure

^{A)} stored between 0 °C and 35 °C**DESCRIPTION**

SikaDamp[®]-110 FE is a standard heavy layer, flexible bitumen foil for sound deadening and sound damping applications on steel substrate.

The bitumen heavy foil is filled with mineral material and polymers. SikaDamp[®]-110 FE is covered with cotton-felt and equipped with a polyamid hot melt adhesive.

The odor of SikaDamp[®]-110 FE 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 cotton-felt
- Heat fusible
- Customized die-cut parts or sheets

AREAS OF APPLICATION

SikaDamp[®]-110 FE 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

During application, the hot melt adhesive must reach 115 °C for a period of at least 30 seconds. In order to ensure that the bitumen mat adheres properly to the substrate, the mat must be pre-heated during the application process.

As the cotton-felt cannot withstand the high temperatures a heating of the bitumen from hot melt adhesive side and of the substrate must happen before the application.

The application shall happen with a certain pressure to ensure a full surface contact between hot melt adhesive and steel substrate.

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

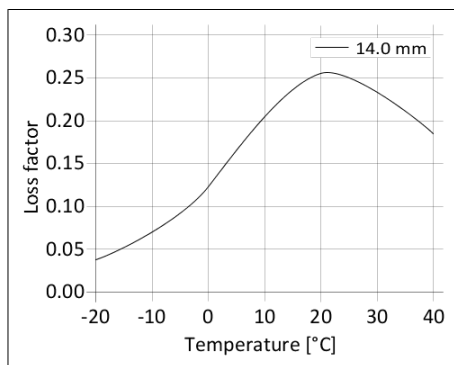


Diagram 1: Loss factor SikaDamp®-110 FE at 200 Hz

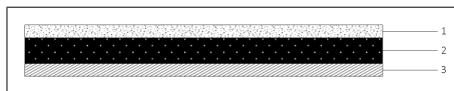


Figure 1: 1) Cotton-felt 2) Bitumen heavy foil 3) Hot melt

STORAGE CONDITIONS

SikaDamp®-110 FE 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.

The temperature during transportation shall not exceed 50 °C.

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

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.