

## PRODUCT DATA SHEET

# SikaDamp<sup>®</sup>-112 PE

Heat fusible bitumen foil with HDPE-foil layer

## TYPICAL PRODUCT DATA

<b>Chemical base</b>		Polymer modified bitumen, mineral filler, iron oxide
<b>Color (CQP001-1)</b>	mastic layer	Black
<b>Density</b>	mastic layer	2.4 g/cm <sup>3</sup>
<b>Top layer thickness (DIN ISO 1849-1/2)</b>		8 µm
<b>Total thickness (DIN ISO 1849-1/2)</b>	incl. top layer	2 – 4 mm
<b>Area weight (CQP008-4)</b>	depending on thickness	4.8 – 9.6 kg/m <sup>2</sup>
<b>Application temperature</b>	for 30 seconds	115 °C
<b>Loss factor (ISO 6721-3)</b>		see diagram 1
<b>Flammability (DIN 75200)</b>		100 mm/min
<b>Shelf life</b>		4 months

CQP = Corporate Quality Procedure

## DESCRIPTION

SikaDamp<sup>®</sup>-112 PE 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, iron oxide and polymers. SikaDamp<sup>®</sup>-112 PE is covered with a HDPE-foil and equipped with a polyamid hot melt adhesive.

The odor of SikaDamp<sup>®</sup>-112 PE 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 HDPE-foil layer
- Heat fusible
- Customized die-cut parts or sheets

## AREAS OF APPLICATION

SikaDamp<sup>®</sup>-112 PE 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 HDPE-foil 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.

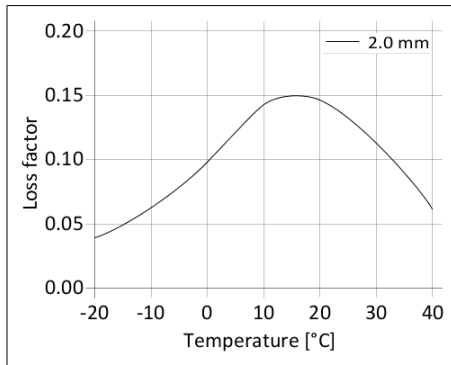


Diagram 1: Loss factor SikaDamp®-112 PE at 200 Hz

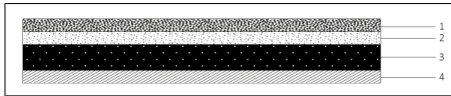


Figure 1: 1) HDPE-foil, 2) Bitumen based PSA, 3) bitumen heavy foil, 4) Hot melt

## STORAGE CONDITIONS

SikaDamp®-112 PE 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

## 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

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