

PRODUCT DATA SHEET

SikaDamp®-140 AL

Self-adhesive bitumen foil covered with aluminum foil

TYPICAL PRODUCT DATA

Chemical base		Polymer modified bitumen, mineral filler
Color (CQP001-1)	mastic layer	Black
	aluminum top layer	Silver
Density (CQP006-4)	mastic layer	1.95 g/cm ³
Top layer thickness (DIN ISO 1849-1/2)		0.16 mm
Area weight (CQP008-4)	as requested by customer	3 – 5 kg/m ² ^A
Application temperature	substrate, product	20 – 35 °C
Loss factor (ISO 6721-3)		see diagram 1
Flammability (DIN 75200)		100 mm/min
Shelf life		3 months ^B

CQP = Corporate Quality Procedure

^{A)} customer may request based on available area weight

^{B)} stored between 0 °C and 35 °C

DESCRIPTION

SikaDamp®-140 AL is a heavy-duty, highly flexible sound damping system based on bitumen without reinforcement inserts. The bitumen foil is filled with mineral material. SikaDamp®-140 AL is equipped with a high-grade self-adhesive system based on acrylate. An embossed aluminum compound foil is applied as surface finish.

PRODUCT BENEFITS

- Sound deadener
- Sound damping
- High density for advanced damping results
- Aluminum-foil as antiblocking equipment
- Acrylic based pressure sensitive adhesive layer

AREAS OF APPLICATION

SikaDamp®-140 AL was initially developed for the noise damping in the field of industry solutions, such as air ducts, partition walls, doors, window sills, ship building and railway solutions. It is as well suitable for automotive solutions, in household and small appliance sector and in many other business fields, where damping with high density bitumen foil 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.

CHEMICAL RESISTANCE

SikaDamp®-140 AL has a good resistance against water, alcohol and diluted acids and bases. If exposure is expected, tests to determine specific resistivity are required.

METHOD OF APPLICATION

Surface preparation

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

Application

Ensure proper and full surface adhesion over the entire geometry of the part by pressing the parts using a press roll.

Application may only be processed on material and substrate temperatures between 20 °C and 35 °C. If the bituminous mat must be applied outside the recommended temperature conditions, a validation of the specific application is required.

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

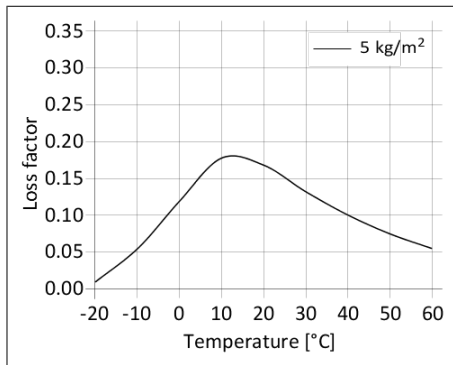


Diagram 1: Loss factor SikaDamp®-140 AL at 200 Hz

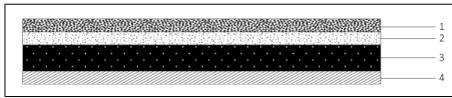


Figure 1: 1) Aluminum, 2) Bitumen based PSA, 3) Bitumen heavy foil, 4) PSA

STORAGE CONDITIONS

SikaDamp®-140 AL 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
- General Guideline For SikaDamp® Application

PACKAGING INFORMATION

Sika is delivering the standard sheets with a dimension of 1000 mm x 1000 mm on a wooden one-way pallet, covered by cardboard box and packed in shrink films. Other sizes, die-cut parts and other packagings are available on request.

The maximum stackability depends to the thickness of the material.

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.