

PRODUCT DATA SHEET

SikaDamp[®]-117 HDP

Bitumen based, constrained layer system with high damping performance

TYPICAL PRODUCT DATA

Chemical base		Bitumen
Color (CQP001-1)	mastic layer	Black
	aluminum top layer	Silver
Density (CQP006-4)	mastic layer	1.1 g/cm ³
Top layer thickness (DIN ISO 1849-1/2)		0.15 mm
Total thickness (DIN ISO 1849-1/2)		1.5 mm – 5.0 mm
Area weight (CQP008-4)	thickness 2.2 mm	2.5 kg/m ²
Loss factor (ISO 6721-3)	thickness 2.2 mm	0.23 ^A
Flammability (DIN 75200)		0 mm/min
Shelf life		5 months ^B

CQP = Corporate Quality Procedure

^A) at 20 °C^B) below 35 °C and 50 % r. h.**DESCRIPTION**

SikaDamp[®]-117 HDP is a non-curing, self-adhesive bitumen-based product used for reduction of structure borne vibration.

This material can be die-cut into customized shapes and sizes specific for each application, different layer thickness are available upon request. SikaDamp[®]-117 HDP is a multi-layer system that offers superior damping performance over traditional dampers.

PRODUCT BENEFITS

- Excellent damping properties
- Damping properties are unaltered by bake or operating temperature
- Application on flat or slightly curved surfaces possible.
- Customized part design, die-cut parts or sheets
- Automatic and manual application possible

AREAS OF APPLICATION

SikaDamp[®]-117 HDP can be applied during automotive assembly process. It is compatible with standard automotive treatments and finish processes. SikaDamp[®]-117 HDP shall be applied on steel or aluminum substrates, it is suitable for electrocoated surfaces in the paintshop as well as on painted surfaces in trim shop. This product is suitable for flat, slightly curved surfaces, as well as crimped applications in the paintshop. Vertical and overhead use is possible.

ADHESION AND DURABILITY

SikaDamp®-117 HDP adheres to electro coated surfaces, base-coat and clearcoat body panels. SikaDamp®-117 HDP maintains its acoustic and adhesive properties after subjection to the various bake schedules and accelerated aging and weathering test conditions commonly used in the automotive industry.

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

The 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.

The parts have to be pressed on the substrate over the entire surface to ensure adequate contact pressure using a pressure roller consisting of soft foam rubber. The shape and width of the pressure roller should be adjusted to the geometry of the part and the surface to achieve best adhesion. If cold applied the application pressure is crucial and directly linked to the adhesion properties. The final adhesion strength will be achieved only after the baking process is completed.

Application may only be processed on material and substrate temperatures between 20 °C and 35 °C. Ideal application temperature is between 25 °C and 30 °C.

STORAGE CONDITIONS

Material should be kept dry at temperatures below 35 °C and at a relative humidity of maximum 50 %. Storage outside of these conditions reduces 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® Application

PACKAGING INFORMATION

Cut to shape, die-cut parts or sheets.

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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