

PRODUCT DATA SHEET

SikaDamp[®]-642

Self-adhesive, constrained layer system for vibration damping

TYPICAL PRODUCT DATA

Chemical base		Butyl
Color (CQP001-1)	mastic layer	Black
	aluminum top layer	Silver
Density (CQP006-4)	mastic layer	1.55 g/cm ³
Top layer thickness (DIN ISO 1849-1/2)		0.3 mm
Total thickness (DIN ISO 1849-1/2)		1.3 – 4.0 mm
Area weight (CQP008-4)	1.9 mm thickness	3.3 kg/m ²
Loss factor (ISO 6721-3)	1.9 mm thickness	0.30 ^A
Flammability (DIN 75200)		0 mm/min
Shelf life	body or paint shop application	4 months ^B
	final assembly application	7 months ^B

CQP = Corporate Quality Procedure

^A) at 30 °C^B) below 35 °C / 50 % r. h.

DESCRIPTION

SikaDamp[®]-642 is a non-curing, self-adhesive butyl-based mass used for reduction of structure borne vibration.

Processed with an aluminum constraining layer, SikaDamp[®]-642 is usually cut to shape by die-cut into customized shapes and sizes.

SikaDamp[®]-642 is a high-grade formulation with mineral fillers that offers superior damping performance over traditional dampers.

PRODUCT BENEFITS

- Superior damping properties
- Damping properties are unaltered by standard bake or operating temperature
- Application on flat or slightly curved surfaces possible
- Customized die-cut parts
- Automatic and manual application possible

AREAS OF APPLICATION

SikaDamp[®]-642 can be applied during standard automotive assembly process. It is compatible with automotive treatment baths and finish processes.

It shall be applied on metal, aluminum or composite substrates. It is suitable for pure or electro coated surfaces in the body or paintshop as well as on painted surfaces in trim shop. SikaDamp[®]-642 can be applied on flat, slightly curved surfaces and also in vertical and inverted areas.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

ADHESION AND DURABILITY

SikaDamp®-642 has demonstrated superior adhesion to electro coated surfaces, base-coat and clear coat body panels. SikaDamp®-642 maintains its acoustic and adhesive properties after subjection to the various bake schedules and accelerated aging and weathering test conditions used in the automotive industry.

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 shall 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.

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 shall be kept dry at temperatures below 35 °C and at a relative humidity of maximum 50 %. Storage outside of these conditions can influence adhesion properties and therefore reduce the shelf life. If these conditions cannot be met a regular check of the parts must be carried out.

The parts can be transported at lower temperatures as stated for application. Prior the application they have to meet the stated application temperature.

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

SikaDamp®-642 is available as cut to shape by die-cut. Various layer thicknesses between 1.3 mm and 4.0 mm are available. Further thicknesses on request.

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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