

PRODUCT DATA SHEET

SikaDamp®-281 Hybrid

Self-adhesive magnetic bitumen pad for vibration damping and panel stiffening

TYPICAL PRODUCT DATA

Properties		Bitumen
Color (CQP001-1)	mastic layer	Black
	top layer	Light grey
Density (CQP006-4)	mastic layer	1.8 g/cm ³
Top layer thickness (DIN ISO 1849-1/2)		0.4 mm
Area weight (CQP008-4)	thickness 2.0 mm	3.5 kg/m ²
Magnetic force (CQP035-1)		12 mT
Loss factor (ISO 6721-3)	thickness 2.0 mm	0.18 ^A
Stiffening effect (DIN ISO 178)	thickness 2.0 mm	60 % ^B
Shelf life		4 months ^C

CQP = Corporate Quality Procedure

^{A)} at 20 °C^{B)} on 0.8 mm steel, 3-point bending^{C)} storage below 35 °C / 50 % r. h.

DESCRIPTION

SikaDamp®-281 Hybrid is a non-curing, self-adhesive, bitumen-based product that adds stiffness and reduces the structure borne vibration of the treated components.

It is cut to shape by die-cut into customized parts.

SikaDamp®-281 Hybrid is a magnetic bitumen formulation with mineral fillers that combines acoustic performance with panel stiffening effect.

PRODUCT BENEFITS

- Damping and stiffening in one product
- No read through effect
- Customized die-cut parts
- Automatic and manual application possible
- Can be applied throughout the body production process
- Easy application supported by magnetic force

AREAS OF APPLICATION

SikaDamp®-281 Hybrid can be applied during standard automotive assembly process. It is compatible with standard automotive treatment and finish processes. The product shall be applied on steel substrates. It is suitable for pure or electrocoated surfaces in the body or paint shop as well as on painted surfaces in trim shop.

SikaDamp®-281 Hybrid is suitable for flat, slightly curved surfaces, as well as in vertical and inverted areas.

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ADHESION AND DURABILITY

SikaDamp®-281 Hybrid has demonstrated superior adhesion to cold rolled steel, galvanized and galvaneal steel as well as electro coated surfaces, base-coat and clearcoat body panels. SikaDamp®-281 Hybrid maintains its acoustic, stiffening 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

No special preparation required other than the surfaces must be clean, dry and free from grease, oil, water and dust.

Application

Ensure proper and full surface adhesion. If cold applied the application pressure is crucial and directly linked to the adhesion properties. The parts have to be pressed on the substrate over the entire surface. To ensure adequate contact pressure the use of a pressure roller consisting of soft foam rubber is recommended. The shape and width of the pressure roller should be adjusted to the geometry of the part and the surface to achieve best adhesion. 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

The product has to be kept dry at temperatures between 18 °C and 35 °C and at a relative humidity of maximum 50 %.

Storage outside of standard conditions reduces 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
- 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

The information, and, in particular, the recommendations relating to the application and end-use 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.