

PRODUCT DATA SHEET

SikaDamp[®]-222

Self-adhesive magnetic bitumen pad for vibration damping

TYPICAL PRODUCT DATA

Chemical base		Bitumen
Color (CQP001-1)		Black
Density (CQP006-4)		2.2 g/cm ³
Total thickness (DIN ISO 1849-1/2)		1.4 - 4.0 mm
Area weight (CQP008-4)	thickness 2.0 mm	4.4 kg/m ²
Magnetic force (CQP035-1)		21 mT
Loss factor (ISO 6721-3)	thickness 2.0 mm	0.12 ^A
Flammability (DIN 75200)		0 mm/min
Shelf life		5 months ^B

CQP = Corporate Quality Procedure

A) at 20 °C

B) Stored below 35 °C / < 50% r. h.

DESCRIPTION

SikaDamp[®]-222 is a non-curing, self-adhesive bitumen-based product used for reduction of structure borne vibration. It is cut to shape by die-cut into customized parts. SikaDamp[®]-222 is a heavy-duty, highly flexible magnetic bitumen formulation with a high grade pressure sensitive adhesive layer.

PRODUCT BENEFITS

- Good damping properties
- No read through effect
- Customized part design, die cut parts or sheets
- Automatic and manual application possible
- Can be applied throughout the body production process
- Easy application supported by magnetic force

AREAS OF APPLICATION

SikaDamp[®]-222 can be applied at any area during automotive assembly process. It is compatible with automotive treatment and finish processes. Product shall be applied on steel. It is suitable for pure or electrocoated surfaces in the body or paintshop as well as on painted surfaces in trim shop. This product is suitable for flat, slightly curved surfaces also in vertical and inverted areas.

ADHESION AND DURABILITY

SikaDamp®-222 has demonstrated superior adhesion to cold rolled, galvanized and galvanneal steel as well as electro coated surfaces, base-coat and clearcoat body panels. SikaDamp®-222 maintains its acoustic and adhesive properties after subjection to common bake schedules and accelerated aging and weathering test conditions used in the automotive industry. This product is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

METHOD OF APPLICATION

Surface preparation:

No special preparation required other than the surfaces should be clean, dry and free from water, grease and dust. Amount of oil must not exceed 3 g/m².

Application:

Ensure proper and full surface adhesion. The part will be hold in position by the magnetic force and the adhesive until it is processed. The final adhesion strength will be achieved only after the baking process is completed. 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 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. 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 have to be kept dry at temperatures between 18 °C and 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
- 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

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

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.