

PRODUCT DATA SHEET

SikaDamp®-180 Hybrid J

Self-adhesive bitumen, constrained layer system for damping and stiffening

TYPICAL PRODUCT DATA

Chemical base	Bitumen	
Color (CQP001-1)	mastic layer	Black
	top layer	Light grey
Top layer thickness (DIN ISO 1849-1/2)	0.4 mm	
Total thickness (DIN ISO 1849-1/2)	1.5 – 5 mm	
Area weight (CQP008-4)	thickness 2.8 mm	3.9 kg/m ²
Loss factor (ISO 6721-3)	thickness 2.8 mm	0.2 ^A
Stiffening effect (DIN ISO 178)	thickness 2.8 mm	80 % ^B
Shelf life	4 months ^C	

CQP = Corporate Quality Procedure

^{A)} at 20 °C

^{B)} on 0.8 mm steel, 3-point bending

^{C)} below 35 °C and 50 % r. h.

DESCRIPTION

SikaDamp®-180 Hybrid J is a non-curing, self-adhesive, bitumen-based product that adds stiffness and reduces the structure borne vibration of the treated components.

Processed with a glass fiber forced layer, SikaDamp®-180 Hybrid J is usually cut to shape by die-cut into customized parts.

SikaDamp®-180 Hybrid J is a bitumen formulation with mineral fillers that combines acoustic performance with panel stiffening effect.

PRODUCT BENEFITS

- Superior 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

AREAS OF APPLICATION

SikaDamp®-180 Hybrid J is applied during automotive assembly process. It is compatible with standard automotive treatments and finishing processes.

It shall be applied on steel or aluminum substrates, it is suitable for pure or electrocoated surfaces in the body or paintshop as well as on painted surfaces in trim shop. SikaDamp®-180 Hybrid J is suitable for flat, slightly curved surfaces also in vertical 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.

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ADHESION AND DURABILITY

SikaDamp®-180 Hybrid J has demonstrated superior adhesion to cold rolled and galvanized steel as well as electro coated surfaces, base-coat and clearcoat body panels. It maintains its acoustic, stiffening and adhesive properties after subjection to common 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 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.

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.

The usage of a vacuum assist tool to facilitate application is possible.

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 is recommended.

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®-180 Hybrid J is available as cut to shape by die-cut. Various layer thicknesses between 1.5 mm and 5 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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