

## PRODUCT DATA SHEET

# SikaBiresin® AF166

Two-component cold curing elastic polyurethane system for manufacturing of filters

**TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)**

Properties	Component A SikaBiresin® AF166	Component B SikaBiresin® AF404
Chemical base	Polyol	Isocyanate
Color (CQP001-1)	Black	Amber
	mixed	Black
Density	1.14 kg/l	1.20 kg/l
	cured	1.15 kg/l
Mixing ratio	by weight	100 : 25
	(higher mechanic) by weight	100 : 30
Viscosity (CQP538-2)	1700 mPa·s	225 mPa·s
Pot-life (CQP536-3)	50 g at 23 °C	2 minutes
Curing time		24 hours
Shore A hardness (CQP023-1 / ISO 868)	A <sub>1</sub> at 100 : 25	65
	A <sub>1</sub> at 100 : 30	85
Elongation at break (CQP036-1 / ISO 527)	at 100 : 25	400 %
	at 100 : 30	300 %
Tear strength (CQP045-1 / ISO 34)	at 100 : 25	18 kN/m
	at 100 : 30	22 kN/m
Service temperature		-40 – 90 °C
Shelf life		12 months

CQP = Corporate Quality Procedure

**DESCRIPTION**

SikaBiresin® AF166 is a 2-component polyurethane system with high reactivity for manufacturing of filters.

The Product can be used with two different mixing ratios if higher mechanical properties are required.

**PRODUCT BENEFITS**

- High reactivity
- Very good setting characteristics
- High chemical resistance
- Good mechanical resistance
- High elongation at break

**AREAS OF APPLICATION**

SikaBiresin® AF166 is designed for manufacturing of filters.

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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## METHOD OF APPLICATION

### Surface preparation

Surfaces must be clean, dry and free from grease, oil, dust and contaminants.

All pre-treatment steps must be confirmed by preliminary tests on original substrates considering specific process conditions.

### Mixing process

Prior to use check the material for homogeneity and crystallization. After prolonged storage at low temperature, crystallization of components may occur. This process can be easily reversed by heating the affected component to a maximum of 70 °C until the crystals have disappeared. Allow to cool down to requested processing temperature before use.

Prior to mixing, component A must be stirred thoroughly.

Note: Both containers must be closed tightly immediately after use to prevent moisture ingress. Once opened the product shall be used as soon as possible.

### Application

SikaBiresin® AF166 is dispensed with adequate 2-component equipment.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

### Removal

Uncured SikaBiresin® AF166 can be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using hand wipes such as Sika® Cleaner-350H or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

### STORAGE CONDITIONS

SikaBiresin® AF166 has to be kept between 15 °C and 25 °C in a dry place. Do not expose it to direct sunlight or frost.

After opening of the packaging, the content has to be protected against humidity.

### 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:

- Safety Data Sheets

### PACKAGING INFORMATION

SikaBiresin® AF166 (A)

Drum	220 kg
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SikaBiresin® AF404 (B)

Drum	250 kg
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## 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.

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