

## PRODUCT DATA SHEET

# SikaBiresin<sup>®</sup> F27 LV (Biresin<sup>®</sup> G27 LV)

UNFILLED FASTCAST RESIN WITH LOW VISCOSITY – POT LIFE 2`20``

## APPLICATIONS

- Casting of master and core models, negatives and mouldings of small up to medium dimensions
- Applicable for thinner and thicker layers
- For casting of art and crafts articles with excellent detail reproduction
- Casting of higher thicknesses (>20 mm) is possible with addition of 300 filler parts by weight to each component, for thinner layers with addition of 200 filler parts to each component

## MAIN PROPERTIES

- Very good flowability
- Good wetting of fillers
- Short demoulding time, at mouldings with thin walls too
- High quality of surface detail reproduction
- Low shrinkage and good dimensional stability
- Very good mechanically workable
- Very fine structure

## DESCRIPTION

Basis	Two component polyurethane system
Component A	<b>SikaBiresin<sup>®</sup> F27 LV</b> , polyol, unfilled, beige
Component B	<b>SikaBiresin<sup>®</sup> F26</b> , MDI-based isocyanate, unfilled, reddish-brown

## PHYSICAL PROPERTIES

		Polyol (A)	Isocyanate (B)
Components		<b>SikaBiresin® F27 LV</b>	<b>SikaBiresin® F26</b>
Viscosity, 25 °C	mPa.s	~ 50	~ 25
Density	g/cm <sup>3</sup>	1.0	1.15
Mixing ratio A:B	in parts by weight	100	100
		Mixture	
Colour		beige	
Viscosity, 25 °C	mPa.s	~ 35	
Pot life, room temperature, 200 g	min	~ 2`20``	
Demoulding time, room temperature	min	> 15	
Curing time, room temperature	d	~ 3	

## MECHANICAL PROPERTIES

approx. values

Density	ISO 1183	g/cm <sup>3</sup>	1.1
Shore hardness	ISO 868	-	D 70
Flexural modulus	ISO 178	MPa	1,050
Flexural strength	ISO 178	MPa	45
Tensile strength	ISO 527	MPa	30
Elongation at break	ISO 527	%	18
Impact resistance	ISO 179	kJ/m <sup>2</sup>	23

## THERMAL AND SPECIFIC PROPERTIES

approx. values

Heat deflection temperature	ISO 75B	°C	75
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## PACKAGING UNITS

- |   |                                 |
|---|---------------------------------|
| ■ Polyol (A), <b>SikaBiresin® F27 LV</b>  | 6 x 1 kg / 20 kg                |
| ■ Isocyanate (B), <b>SikaBiresin® F26</b> | 6 x 1 kg / 5 kg / 20 kg / 50 kg |

## PROCESSING DATA

- The material, processing and mould temperature should be at least 18 – 25 °C.
- Both components must be shaken well before use.
- Recommended release agents are Sika® Liquid Wax-815 or Sika® Pasty Wax-818. For more information, see Product Data Sheets of the release agents.
- Pay attention to dry conditions and dry mould surfaces while processing.
- Porous surfaces have to be well sealed before.
- If fillers are used, mix them thoroughly into the A component or half in each component before mixing the components.
- Both components have to be mixed thoroughly according to mixing ratio and poured immediately into the released mould with beginning at the lowest point.
- For cleaning the final part from release agent residues, we recommend Sika® Reinigungsmittel-5. Before use of other cleaners, compatibility must be tested.
- Before overpainting, the parts have to be grinded or sandblasted. A polyurethane paint is recommended.

## STORAGE CONDITIONS

Shelf life	<ul style="list-style-type: none"><li>■ Polyol (A), <b>SikaBiresin® F27 LV</b> 12 months</li><li>■ Isocyanate (B), <b>SikaBiresin® F26</b> 12 months</li></ul>
Storage temperature	<ul style="list-style-type: none"><li>■ Polyol (A), <b>SikaBiresin® F27 LV</b> 18 – 25 °C</li><li>■ Isocyanate (B), <b>SikaBiresin® F26</b> 18 – 25 °C</li></ul>
Crystallization	<ul style="list-style-type: none"><li>■ After prolonged storage at low temperature, crystallization of components may occur.</li><li>■ This is easily removed by warming up for a sufficient time to a maximum of 70 °C.</li><li>■ Allow to cool to room temperature before use.</li></ul>
Opened packagings	<ul style="list-style-type: none"><li>■ Containers must be closed tightly immediately after use to prevent moisture ingress.</li><li>■ The residual material needs to be used up as soon as possible.</li></ul>

### 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 Advanced Resins. Copies of the following publications are available on request: Safety Data 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.

### LEGAL NOTICE

The information, and, in particular, the recommendations relating to the application and enduse 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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