

## PRODUCT DATA SHEET

## SikaBiresin® F155

Unfilled fastcast resin for production of climbing holds

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

Properties	Component A SikaBiresin® F155	Component B SikaBiresin® F150
Chemical base	Polyol, unfilled	MDI-based isocyanate, unfilled
Color	Off-white	Yellowish
	mixed	Off-white
Density	1.03 kg/l	1.21 kg/l
	cured	1.19 kg/l
Mixing ratio	by weight 100 : 100	
Viscosity (CQP029-4)	650 mPa·s	500 mPa·s
	mixed	600 mPa·s
Pot life (CQP021-4)	100 g at 23 °C 7 minutes	
Demolding time	depending on casting thickness 90 – 120 minutes	
Shore D hardness (CQP023-1 / ISO 868)	81 <sup>A</sup>	
Tensile strength (CQP036-2 / ISO 527)	53 MPa <sup>A</sup>	
Tensile modulus (CQP036-2 / ISO 527)	2200 MPa <sup>A</sup>	
Elongation at break (CQP036-2 / ISO 527)	6 % <sup>A</sup>	
Flexural strength (CQP027-2 / ISO 178)	87 MPa <sup>A</sup>	
Flexural modulus (CQP027-2 / ISO 178)	2100 MPa <sup>A</sup>	
Impact resistance (CQP038-2 / ISO 179)	78 kJ/m <sup>2</sup> <sup>A</sup>	
Abrasion resistance (CQP112-1 / ISO 4649)	260 mm <sup>3</sup> <sup>A</sup>	
Heat deflection temperature (CQP030-1 / ISO 75B)	50 °C <sup>A</sup>	
Glass transition temperature TMA (CQP053-1 / ISO 11359)	64 °C <sup>A</sup>	
Shelf life	12 months	9 months

CQP = Corporate Quality Procedure

<sup>A)</sup> curing condition: 70 °C for 16 hours**DESCRIPTION**

SikaBiresin® F155 is an unfilled fast curing 2-component polyurethane system with high abrasion resistance for production of climbing holds.

**PRODUCT BENEFITS**

- High abrasion resistance
- High impact resistance
- Quick setting product
- Easy processing
- User friendly mixing ratio
- Customized colors with SikaBiresin® Color Paste

**AREAS OF APPLICATION**

SikaBiresin® F155 is designed for production of wear resistant and impact resistant climbing holds. This product is suitable for experienced professional users only.

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## METHOD OF APPLICATION

### Surface preparation

The material, processing and mold or master-model temperature shall be between 18 °C and 25 °C.

Make sure the mold or master model is clean, dry, dust and grease free.

If mold or master-model surface is porous, it must be sealed prior applying the release agent.

It is recommended to use wax-based release agents. For further information regarding Sika release agent consult the corresponding Product Data Sheet.

### 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.

Consider, pot life is affected by temperature and mixed quantity.

Prior to mixing both components must be shaken thoroughly.

To shake large containers, place them on a table and then carefully turn them over and move them back and forth.

If the Product needs to be pigmented, max. 1 % of SikaBiresin® Color Paste shall be mixed into the A-component.

Both components must be mixed homogeneously respecting the defined mixing ratio. The mixing can be performed with a spatula or a machine stirrer at ≤ 300 rpm. To secure homogeneous and complete mixing, pour the mixed product into another container and mix again shortly, considering the pot life.

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

Immediately after mixing pour the Product into the mold starting at the deepest point.

Demolding time may vary depending on casted thickness and room temperature.

Further post curing of the demolded part can improve the final mechanical properties.

Depending on the geometry and weight of the part, it is recommended to use a conformer while post curing.

With SikaBiresin® F155 it is recommended using SikaBiresin® SI222 (silicone) for molds.

### STORAGE CONDITIONS

Both components must be stored at temperature between 15 °C and 25 °C in original unopened containers.

### 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® F155 (A)

Canister	20 kg
Drum	200 kg

#### SikaBiresin® F150 (B)

Canister	20 kg
Drum	225 kg

## 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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