

PRODUCT DATA SHEET

SikaBiresin® UR340

POLYURETHANE CASTING ELASTOMER – SHORE A 60 – COLD CURING

APPLICATIONS

- Production of parts requiring elastomeric properties (e.g. seals, moulds with undercut, sanding mask)

MAIN PROPERTIES

- Low viscosity
- Low moisture sensitivity
- Good abrasion resistance
- Good dimensional stability
- Good ageing resistance

DESCRIPTION

Basis	Two component polyurethane system
Component A	SikaBiresin® UR340, isocyanate, colorless
Component B	SikaBiresin® UR340, polyol, amber

PHYSICAL PROPERTIES

		Isocyanate (A)	Polyol (B)
		SikaBiresin® UR340	SikaBiresin® UR340
Components			
Viscosity, 25 °C	mPa.s	4,000	175
Density, 25 °C		1.04	0.93
Mixing ratio A:B	in parts by weight	100	50
	In parts by volume	100	56
		Mixture	
Colour		Light amber	
Viscosity, 25 °C	mPa.s	1,500	
Pot life, 25 °C, 150 g	min	17	
Demoulding time at 23 °C	h	24	
Demoulding time at 80 °C	h	2	
Curing time at 23 °C	h	144	
Curing time at 80 °C	h	4	
Maximal casting thickness	mm	80	

MECHANICAL PROPERTIES

approx. values

Density	ISO 2781		1.02
Shore hardness	ISO 868	Shore A1 / A15	A 63 / A 61
Tensile strength	ISO 37	MPa	3
Tear strength	ISO 34	kN/m	24
Elongation at break	ISO 37	%	1,000
BASHORE resilience	ASTM 2632	%	44
Linear shrinkage (250 x 50 x 3 mm)	-	mm/m	0.50
Abrasion resistance	ISO 5470	mg / 100U	16

THERMAL AND SPECIFIC PROPERTIES

approx. values, hardening conditions 16 h at 70 °C

Working temperature	-	-	-40 / +80
Glass transition temperature	ISO 11357	°C	<-60
Coefficient of thermal expansion (+0 °C to +40 °C)	ISO 11359	10 ⁻⁶ K ⁻¹	260

PACKAGING UNITS

- | | |
|--------------------------------------|-----------------------|
| ■ Isocyanate (A), SikaBiresin® UR340 | 20 kg; 6 x 1 kg net |
| ■ Polyol (B), SikaBiresin® UR340 | 10 kg; 6 x 0,5 kg net |

PROCESSING DATA

- The material, processing and mould temperature should be at least 18 – 25 °C.
- Porous surfaces have to be well sealed before.
- Recommended release agents are Sika® Liquid Wax systems. For more information, see Product Data Sheets of the release agents.
- Pay attention to dry conditions and dry mould surfaces while processing.
- Both components have to be mixed thoroughly according to mixing ratio and poured immediately into the released mould with beginning at the lowest point.

STORAGE CONDITIONS

Shelf life	■ Isocyanate (A), SikaBiresin® UR340	12 months
	■ Polyol (B), SikaBiresin® UR340	12 months
Storage temperature	■ Isocyanate (A), SikaBiresin® UR340	18 – 25 °C
	■ Polyol (B), SikaBiresin® UR340	18 – 25 °C
Crystallization	■ After storage below 15 °C polyol could crystallize.	
	■ This is easily removed by warming up for 4 to 6 hours at 50 °C.	
	■ Excessive heating of the components may cause degradation of the final product (temperature > 60 °C or heating time > 12 hours).	
Opened packagings	■ Containers must be closed tightly immediately after use to prevent moisture ingress.	
	■ The residual material needs to be used up as soon as possible.	

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 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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