PRODUCT DATA SHEET

SikaBiresin® UR340 (UR 3440)

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, colourless
Component B	**SikaBiresin® UR340,** polyol, amber

PHYSICAL PROPERTIES

		Isocyanate (A)	Polyol (B)
Components		**SikaBiresin® UR340**	**SikaBiresin® UR340**
Viscosity, 25 °C	mPa.s	4,000	175
Specific gravity, 25° C	g/cm³	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		2	
Curing time at 23° C	h	144	
Curing time at 80° C		4	
Maximal casting thickness	mm	80	

MECHANICAL PROPERTIES

approx. values

Specific gravity	ISO 2781	g/cm^3	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 16h at 70° C

Working temperature	-	-	-40 / +80
Glass transition temperature	ISO 11357	°C	<-60
Coefficient of thermal expansion (+0° 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. 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 crystalize. ■ 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
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