

BUILDING TRUST

PRODUCT DATA SHEET

SikaBiresin® UR702 / SikaBiresin® UR315 (UR 7802 / UR 3415)

POLYURETHANE CASTING ELASTOMERE – SHORE A 45 – COLD CURING

APPLICATIONS

- Casting resin for production of parts and molds requiring good elastomeric properties and easy process.
 - Unfilled resin easy to pigment in any colors. Good final properties. Cast by hand or with a 2K machine.

MAIN PROPERTIES

- Low shrinkage after demolding
- Low moisture sensitivity
- Friendly use (1:1 mix ratio)
- Easy to pigment

DESCRIPTION

Basis	Two component polyurethane system	
Component A	SikaBiresin [®] UR702, isocyanate, amber	
Component B	SikaBiresin [®] UR315, polyol, amber to dark amber	

PHYSICAL PROPERTIES		Isocyanate (A)	Polyol (B)
Components		SikaBiresin [®] UR702	SikaBiresin [®] UR315
Viscosity, 25 °C	mPa.s	1,500	250
Density, 25 °C	g/cm ³	1.05	1.00
Mixing ratio A:B	in parts by weight	50	100
		Mix	ture
Colour		Amber tr	anslucent
Viscosity, 25 °C	mPa.s	~ 1	,200
Pot life, 25 °C, 100 g	min	12	- 18
Demolding time at 23° C	h	1	.6
Curing time at 23° C	d		5
Maximal casting thickness	mm	1	00



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MECHANICAL PROPERTIES

approx. values			
Density	ISO 1675	g/cm³	1.02
Shore hardness	ISO 868	Shore A1	A 45
Tensile strength	ISO 37	МРа	2.3
Tear strength	ISO 34	kN/m	17
BASHORE resilience	ASTM 2632	%	46
Elongation at break	ISO 37	%	650

THERMAL AND SPECIFIC PROPERTIES

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

Working temperature	-	°C	- 20 / + 80
Glass transition temperature	ISO 11357	°C	< 0

PACKAGING UNITS

	 Isocyanate (A), SikaBiresin[®] UR702 Polyol (B), SikaBiresin[®] UR315 	10 kg 10 kg
PROCESSING DATA		
STORAGE CONDITIONS	 18 °C – 25 °C. Make sure the mold or master model is If mold or master-model surface is pore release agent. It is recommended to use wax-based re regarding Sika release agent consult the Component B must be stirred thorough shaken well before use. Both components must be mixed thorough shaken well before use. 	bus, it must be sealed prior applying the elease agents. For further information e corresponding Product Data Sheet. Ny before use. Component A must be bughly respecting the defined mixing ratio. atula or a machine stirrer at ≤ 300 rpm.
		12

Shelf life	 Isocyanate (A), SikaBiresin[®] UR702 12 months Polyol (B), SikaBiresin[®] UR315 12 months 	
Storage temperature	 Isocyanate (A), SikaBiresin[®] UR702 Polyol (B), SikaBiresin[®] UR315 18 – 25 °C 	
Crystallization	 After prolonged storage at a temperature below 15°C both components could crystallize. This is easily removed by warming up for 4 to 6 hours to 50 °C. Excessive heating of both components may cause a 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 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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