

PRODUCT DATA SHEET

SikaBiresin® UR572 L20 / SikaBiresin® UR505 (UR 5805 / UR 58720)

POLYURETHANE CASTING ELASTOMER - SHORE A 70 - POT LIFE 15-20'

APPLICATIONS

 Polyurethane casting elastomer designed to produce flexible molds or parts, by hand casting or with help of a 2-component low pressure machine.

MAIN PROPERTIES

- Easy processing
- Excellent tear strength
- Good resistance against release agents for cement concrete
- Solvent and mercury free

DESCRIPTION

Basis	Two component polyurethane system	
Component A	SikaBiresin [®] UR505, isocyanate, straw yellow	
Component B	SikaBiresin [®] UR572 L20, polyol, beige	

PHYSICAL PROPERTIES		Isocyanate (A)	Polyol (B)
Components		SikaBiresin [®] UR505	SikaBiresin [®] UR572 L20
Viscosity, 25 °C	mPa.s	~ 450	~ 1,500
Density, 25° C		1.21	1.22
Mixing ratio A:B	in parts by weight	30	100
	in parts by volume	30	100
		Mi	ixture
Colour		В	eige
Viscosity, 25 °C	mPa.s	~ 1,000	
Pot life, 25° C, 130 g	min	15 – 20	
Maximal casting thickness	mm	~ 100	



MECHANICAL PROPERTIES

approx. values			
Density	ISO 2781	g/cm³	1.25
Shore hardness	ISO 868	Shore A1 / A15	A 75 / A 71
Tensile strength	ISO 37	MPa	9
Tear strength	ISO 34	kN/m	31
BASHORE resilience	ASTM 2632	%	30
Elongation at break	ISO 37	%	700
Linear shrinkage (1020 x 140 x 100 mm)	Internal	mm/m	5.9
Abrasion resistance	ISO 5470	mm3/100U	40

THERMAL AND SPECIFIC PROPERTIES

approx. values, hardening conditions 12 h at 80 °C

Glass transition temperature	ISO 11359	°C	< 0

PACKAGING UNITS

	 Isocyanate (A), SikaBiresin[®] UR505 Polyol (B), SikaBiresin[®] UR572 L20 	1025 kg / 225 kg / 11 kg 205 kg / 18.3 kg
PROCESSING DATA		
	 °C. If master-model surface is porous it mu Recommended release agents are was recommendation see Product Data She technical assistance. When using pigments, it is recommend Paste. Add the pigment in component R component A. Both components have to be mixed the according to mixing ratio. To secure homogeneous and complete container and mix again briefly. Then p point. Demolding time may vary depending on Refer to the table above or please check To achieve the highest performance, le days before using it. To favor concrete mould longevity we i local release agent for concrete or container or container or container or container or container before using it. 	based. For more information, and sets of Sika Release agents or contact local led to add max 1% of SikaBiresin® Color B and stir to homogenize prior mixing with broughly with a spatula or low-rpm stirrer mixing, fill the mixture in a second empty our immediately starting from the deepest in casted thickness and room temperature. Ek in your own conditions. ave the elastomeric mould at 23 °C for 5 mvite you to check compatibility of your fact our local technical support.



STORAGE CONDITIONS

Shelf life	 Isocyanate (A), SikaBiresin[®] UR505 9 months Polyol (B), SikaBiresin[®] UR572 L20 9 months 	
Storage temperature	 Isocyanate (A), SikaBiresin[®] UR505 Polyol (B), SikaBiresin[®] UR572 L20 18 - 25 °C 	
Crystallization	 After prolonged storage at low temperature, crystallization of Isocyanate (A) may occur. This is easily removed by warming up for a sufficient time to a maximum of 60 °C. Allow to cool to requested processing temperature before use. 	
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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