

BUILDING TRUST

PRODUCT DATA SHEET SikaBiresin® UR572

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

APPLICATIONS

 Polyurethane casting elastomer designed to produce molds or flexible parts, by hand casting or with help of 2K machine.

MAIN PROPERTIES

- Friendly use
- 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, polyol, beige	

PHYSICAL PROPERTIES		Isocyanate (A)	Polyol (B)
Components		SikaBiresin [®] UR505	SikaBiresin [®] UR572
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
		Mix	ture
Colour		Ве	ige
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

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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

Working temperature	-	°C	- 20 / + 70
Glass transition temperature	ISO 11359	°C	< 0

PACKAGING UNITS

Isocyanate (A), SikaBiresin[®] UR505

- Polyol (B), SikaBiresin[®] UR572
- 1025 kg; 225 kg; 11 kg net 18.3 kg net

PROCESSING DATA

To achieve the highest properties, leave the mould at 23 °C for 5 days before any use. To ensure a long lasting we provide under request a compatibility checking with
the release agent for concrete used in production.

STORAGE CONDITIONS

Shelf life		nonths		
		nonths		
Storage temperature		– 25 °C		
	Polyol (B), SikaBiresin [®] UR572 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 a	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.

Contact

SIKA DEUTSCHLAND GMBH

Stuttgarter Straße 139 72574 Bad Urach - GERMANY Phone: +49 7125 940 492 Fax: +49 7125 940 401 E-Mail: tooling@de.sika.com Website: www.sikaadvancedresins.de

SIKA AUTOMOTIVE FRANCE S.A.S.

ZI des Béthunes - 15, Rue de l'Equerre 95310 Saint-Ouen-l'Aumône CS 40444 95005 Cergy Pontoise Cedex - FRANCE Phone: +33 1 34 40 34 60 Fax: +33 1 34 21 97 87 E-Mail: advanced.resins@fr.sika.com Website: www.sikaadvancedresins.fr

AXSON TECHNOLOGIES SPAIN, S.L.

C/Guardaagulles, 8 – P.I. Congost - 08520 Les Franqueses del Valles (Barcelona) - SPAIN Phone: +34 93 225 16 20 Fax: +34 93 225 03 05 E-Mail: spain@axson.com Website: www.sikaadvancedresins.es

AXSON ITALIA S.R.L.

Via Morandi 15 21047 Saronno (Va) – ITALY Phone: +39 02 96 70 23 36 Fax: +39 02 96 70 23 69 E-Mail: axson@axson.it Website: www.sikaadvancedresins.it

AXSON UK LTD

Unit 15 Studlands Park Ind. Estate Newmarket Suffolk, CB8 7AU - UNITED KINGDOM Phone: +44 1638 660 062 Fax: +44 1638 665 078 E-Mail: sales.uk@axson.com Website: www.sikaadvancedresins.uk

SIKA AUTOMOTIVE SLOVAKIA S.R.O.

Tovarenska 49 953 01 Zlate Moravce - SLOVAKIA Phone: +421 2 5727 29 33 Fax: +421 37 3000 087 E-Mail: SikaAdvancedResins@sk.sika.com Website: www.sikaadvancedresins.com

SIKA ADVANCED RESINS US

30800 Stephenson Highway Madison Heights, Michigan 48071 - USA Phone: +1 248 588 2270 Fax: +1 248 616 7452 E-Mail: advanced.resins@us.sika.com Website: www.sikaadvancedresins.us

SIKA AUTOMOTIVE EATON RAPIDS, INC. 1611 Hults Drive

Eaton Rapids, Michigan 48827 - USA Phone: +1 517 663 81 91 Fax: +1 517 663 05 23 E-Mail: advanced.resins@us.sika.com Website: www.sikaadvancedresins.us

SIKA AUTOMOTIVE MEXICO S.A. DE C.V.

Ignacio Ramirez #20 Despacho 202 Col. Tabacalera C.P. 06030 CDMX - MEXICO Phone: +52 55 5264 49 22 E-Mail: marketing@asson.com.mx Website: www.sikaadvancedresins.mx

SIKA AUTOMOTIVE SHANGHAI CO. LTD. N°53 Tai Gu Road

Wai Gao Qiao Free Trade Zone, Pudong 200131 Shanghai - CHINA Phone: +86 21 58 68 30 37 Fax: +86 21 58 68 26 01 E-Mail: marketing.china@axson.com Website: www.sikaaxson.cn

Sika Ltd.

10 F, Shinagawa Intercity Tower B. 2-15-2 Konan, Minato-ku Tokyo 108-6110 - JAPAN Phone: +81 3 6433 2314 Fax: +81 3 6433 2102 E-Mail: advanced-resins@jp.sika.com Website: www.jpn.sika.com

AXSON INDIA PVT. LTD.

Office n°8, Building Symphony C - 3rd Floor Range Hills Road Bhosale Nagar Pune 411 020 - INDIA Phone: +91 20 25560 710 Fax: +91 20 25560 712 E-Mail: info.india@axson.com Website: www.sikaadvancedresins.in

PRODUCT DATA SHEET SikaBiresin® UR572 Juli 2020, Version 01 Sika Advanced Resins

