

## PRODUCT DATA SHEET

# SikaBiresin<sup>®</sup> M72 M70

## POLYURETHANE MODEL PASTE

## APPLICATIONS

- Machine application of paste on substructures for production of contour shaped machinable blanks for design-, styling- or cubing models

## MAIN PROPERTIES

- Hard, low-density material with high dimensional stability
- After mixing the material becomes thixotropic and hangs well on vertical surfaces
- Fine, dense surface, easy to varnish
- Stress releasing formulation lowers distortion
- Easily workable

## DESCRIPTION

Basis	Two component polyurethane system
Component A	<b>SikaBiresin<sup>®</sup> M72</b> , polyol, brown
Component B	<b>SikaBiresin<sup>®</sup> M70</b> , MDI-based isocyanate, reddish brown

## PHYSICAL PROPERTIES

		Polyol (A)	Isocyanate (B)
Components		<b>SikaBiresin<sup>®</sup> M72</b>	<b>SikaBiresin<sup>®</sup> M70</b>
Viscosity, 25 °C	mPa.s	15,000	175
Density	g/cm <sup>3</sup>	0.76	1.23
Mixing ratio A : B	by weight	100	45
Mixture			
Viscosity, 25 °C	mPa.s	Pasty after 10 – 15 seconds	
Pot life, RT	min	10 (after machine application)	
Setting time (workable)	h	> 8	

## MECHANICAL AND THERMAL PROPERTIES

(approx. values)

Density	ISO 845	g/cm <sup>3</sup>	0.9
Shore hardness	ISO 868	D	65
Flexural modulus	ISO 178	MPa	700
Flexural strength	ISO 178	MPa	20
Impact resistance	ISO 179	kJ/m <sup>2</sup>	9

## THERMAL AND SPECIFIC PROPERTIES

(approx. values)

Glass transition temperature, T <sub>g</sub>	ISO EN 61006	°C	47
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## PACKAGING UNITS

- |   |                |
|---|----------------|
| ■ Polyol (A), <b>SikaBiresin® M72</b>     | 30 kg / 150 kg |
| ■ Isocyanate (B), <b>SikaBiresin® M70</b> | 20 kg / 225 kg |

## PROCESSING DATA

- The material, processing and mold or master-model temperature shall be between 18 °C and 25 °C.
- To avoid cracks in the paste, we recommend that the cured models and molds should not be exposed to high temperature differences during storage and transport.
- Cured model paste layers can be modified and repaired with SikaBiresin® B370 brown.
- For more processing information please check "Biresin® PUR pastes Processing instructions".
- Containers must be closed tightly immediately after use to prevent moisture ingress.
- Once opened the product shall be used up as soon as possible.

## STORAGE CONDITIONS

Shelf life	■ Polyol (A), <b>SikaBiresin® M72</b>	12 months
	■ Isocyanate (B), <b>SikaBiresin® M70</b>	12 months
Storage temperature	■ Polyol (A), <b>SikaBiresin® M72</b>	15 °C – 25 °C
	■ Isocyanate (B), <b>SikaBiresin® M70</b>	15 °C – 25 °C

## 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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## Contact

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### SIKA DEUTSCHLAND CH AG & Co KG

Business Unit Industry  
Stuttgarter Straße 139  
72574 Bad Urach  
Phone: +49 7125 940-7692  
E-Mail: [industry@de.sika.com](mailto:industry@de.sika.com)  
Website: [www.sika.de](http://www.sika.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](mailto:advanced.resins@fr.sika.com)  
Website: [www.sikaadvancedresins.fr](http://www.sikaadvancedresins.fr)

### Sika S.A.U.

Carretera de Fuencarral, 72  
28108 Alcobendas (Madrid) - SPAIN  
Phone: +34 916 572 375  
E-Mail: [pedidos.sika@es.sika.com](mailto:pedidos.sika@es.sika.com)  
Website: [esp.sika.com](http://esp.sika.com)

### Sika Italia S.p.A.

Via Luigi Einaudi 6  
20068 Peschiera Borromeo (MI) - Italy  
Phone: +39 02 54778111  
Fax: +39 02 54778 119  
E-Mail: [info@sika.it](mailto:info@sika.it)  
Website: [www.sika.it](http://www.sika.it)

### Sika Limited

Head Office, Watchmead – Welwyn  
Garden City – AL7 1BQ – United Kingdom  
Phone: +44 1707 394444  
E-Mail: [industry-sales@uk.sika.com](mailto:industry-sales@uk.sika.com)  
Website: [www.gbr.sika.com](http://www.gbr.sika.com)

### 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](mailto:SikaAdvancedResins@sk.sika.com)  
Website: [www.sikaadvancedresins.com](http://www.sikaadvancedresins.com)

### Sika Industry – Tooling, Resins and Marine

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](mailto:advanced.resins@us.sika.com)  
Website: [www.sikaindustry.com](http://www.sikaindustry.com)

### SIKA AUTOMOTIVE EATON RAPIDS, INC.

1611 Hulst 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](mailto:advanced.resins@us.sika.com)  
Website: [www.sikaadvancedresins.us](http://www.sikaadvancedresins.us)

### SIKA MEXICANA SA de CV

Av. Gustavo Baz #309 Centrum Park  
54060 Tlanepantla Estado de MEXICO  
Phone: +52 442 238 5800  
E-Mail: [roman.octavio@mx.sika.com](mailto:roman.octavio@mx.sika.com)

### 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: [industry@cn.sika.com](mailto:industry@cn.sika.com)  
Website: [www.sika.cn](http://www.sika.cn)

### Sika Japan Ltd.

Akasaka-K-Tower 7F, 1-2-7, Moto-Akasaka, Minato-ku,  
Tokyo · Tokyo · Tokyo · 107-0051 · Japan  
Phone: +81 3-6433-2101  
Fax: +81 3 6433 2102  
E-Mail: [advanced-resins@jp.sika.com](mailto:advanced-resins@jp.sika.com)  
Website: [www.jpn.sika.com](http://www.jpn.sika.com)

### SIKA INDIA PVT LTD,

Plot No. Pap-V-90/1,  
Chakan Industrial Area,  
Phase-II, Vasuli, Khed, PUNE,  
Maharashtra – 410501  
E-Mail: [info.india@in.sika.com](mailto:info.india@in.sika.com)