

PRODUCT DATA SHEET

SikaBiresin® TD150 (SikaBiresin® TD150 / TRANSLUX D150)

EPOXY CASTING RESIN WITH HIGH TRANSPARENCY SUITABLE FOR DEEP POURING

APPLICATIONS			
	 For applications furniture, art and decoration to make deep pour transparent an UV resistant castings such as river table, embeddings, mock-ups, trophies 		
MAIN PROPERTIES			
	 High transparency 	1	
	Low viscosity		
	 Self-degassing beh Sinch and a set in 		
	Single pour castingGood UV resistant		
DESCRIPTION			
Basis	Two component epoxy system		
Component A	SikaBiresin [®] TD150, epoxy resin, unfilled, bluish-transparent		
Component B	SikaBiresin [®] TD150, a	amine, unfilled, transparent	
			Hardener (B)
PHYSICAL PROPERTIES		amine, unfilled, transparent	
Component B PHYSICAL PROPERTIES Components Viscosity, 25 °C		amine, unfilled, transparent Resin (A)	Hardener (B)
PHYSICAL PROPERTIES		amine, unfilled, transparent Resin (A) SikaBiresin® TD150	Hardener (B) SikaBiresin® TD150
PHYSICAL PROPERTIES Components Viscosity, 25 °C	mPa.s	amine, unfilled, transparent Resin (A) SikaBiresin® TD150 ~ 600	Hardener (B) SikaBiresin® TD150 ~ 100
PHYSICAL PROPERTIES Components Viscosity, 25 °C	mPa.s in parts by weight	amine, unfilled, transparent Resin (A) SikaBiresin® TD150 ~ 600 100	Hardener (B) SikaBiresin® TD150 ~ 100 45 50
PHYSICAL PROPERTIES Components Viscosity, 25 °C Mixing ratio	mPa.s in parts by weight	amine, unfilled, transparent Resin (A) SikaBiresin® TD150 ~ 600 100 100	Hardener (B) SikaBiresin® TD150 ~ 100 45 50 ure
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* refer to the graph below, influence of room temperature (RT) on exothermic reaction and curing time on 500 g casted in a plastic cup in thickness 90 mm







SikaBiresin[®] TD 150 Reactivity vs time & temperature



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MECHANICAL AND THERMAL PROPERTIES

approx. values on standard-sized specimen / after curing 7 days at room temperature

Shore hardness	ISO 868	Shore D1	D 80
Elongation at maximum strength	ISO 527	%	4,5
Flexural modulus	ISO 178	МРа	2,100
Glass transition temperature (TG)	ISO 11359-2	°C	39
Glass transition temperature (TG) after 16H at 50°C	ISO 11359-2	°C	47

SPECIFIC PROPERTIES

Maximum casting thickness on plate 350 x 300 mm	Room temperature	Thickness (mm)	Weight (g)	Temperature of reaction
Lowest temperature to work with	18 °C	70	8,085	45 °C
	20 °C	50	5,575	30 °C
	23 °C	25	2,890	27 °C
	25 °C	15	1,730	27 °C
Highest temperature to work with	28 °C	10	1,155	30 °C

PACKAGING UNITS

- Resin (A), SikaBiresin[®] TD150
 - Hardener (B), SikaBiresin[®] TD150
- 1000 kg / 220 kg / 5 kg net 950 kg / 200 kg / 2.25 kg net
- 950 kg / 200 kg / 2.25 kg

PROCESSING DATA

- Room temperature is the most important parameter to be successful in SikaBiresin® TD150 casting. There is a link in between room temperature (RT), volume of cast resin and curing speed. A speed curing caused by warm RT creates high exothermic reaction and cured resin could be yellow with streaks on top.
- Mixing should be done by hand or with an electric mixer. Be careful not to incorporate too much air while mixing. Emulsion must be avoided.
- After a primary mixing in a bucket pour the product in a second bucked and finish the mixing. Scrap well the walls of the mixing container. Leave the mixing for a selfdegassing for at least 15 to 30 minutes prior to cast or use a vacuum chamber.
- According to long pot life and low viscosity the casting frame must be perfectly tight. Brown PE packing tape is self-releasing from the resin and could be used in corners of the box and anywhere resin should not bond on support.
- A liquid or pasty wax could be also used to prevent bonding on models and supports. The wood or porous surfaces of models must be sealed before casting the resin. Quick setting epoxy or a varnish could be used but sealer must be cured prior to casting of SikaBiresin[®] TD150.
- After casting and some relaxation time the remaining bubbles can easily be removed with a hot airstream gun (sweep the surface at 15 – 20 cm of distance).
- A thin sanding and polishing are almost always needed to get shiny and flat surface. Use appropriate tools in order to avoid heat on the resin when polishing. Water sandpaper is advised.



STORAGE CONDITIONS

Shelf life	 Resin (A), SikaBiresin® TD150 Hardener (B), SikaBiresin® TD150 	12 months 12 months	
Storage temperature	 Resin (A), SikaBiresin® TD150 Hardener (B), SikaBiresin® TD150 	15 – 25 °C 15 – 25 °C	
Crystallization	 After prolonged storage at low temperature, crystallization of A (RESIN) component may occur. This is easily removed by warming up for a sufficient time to a maximum of 70 °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.



Contact

SIKA DEUTSCHLAND GMBH

Business Unit Industry Stuttgarter Straße 139 72574 Bad Urach Phone: +49 7125 940-7692 E-Mail: industry@de.sika.com Website: 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 Website: www.sikaadvancedresins.fr

AXSON TECHNOLOGIES SPAIN, S.L. -

Sika Advanced Resins C/Guardaagulles, 8 – P.I. Congost - 08520 Les Franqueses del Valles (Barcelona) - SPAIN Phone: +34 93 225 16 20 E-Mail: sar-sales@es.sika.com Website: www.sikaadvancedresins.es

AXSON ITALIA S.R.L. – Sika Advanced Resins

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

Sika Limited

Head Office, Watchmead – Welwyn Garden City – AL7 1BQ – United Kingdom Phone: +44 1707 394444 E-Mail: industry-sales@uk.sika.com Website: 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 Website: 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 Website: www.sikaindustry.com

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 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

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

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

