

PRODUCT DATA SHEET

SikaBiresin® TD150 / TD151 (SikaBiresin® TD150 / TRANSLUX D151)

EPOXY CASTING RESIN WITH HIGH TRANSPARENCY FOR WATER SIMULATION

APPLICATIONS

- Decorative objects simulating water typically in vases for floral displays, colored liquids in glass bottles or inclusions of objects inside plexiglass frames (ex museums or art/deco or miniature sets).

MAIN PROPERTIES

- High transparency
- Low viscosity
- Self-degassing behaviour
- Good UV resistance
- Soft rubbery hardness to avoid stress cracking on glass container

DESCRIPTION

Basis	Two component epoxy system
Component A	SikaBiresin® TD150 , epoxy resin, unfilled, bluish-transparent
Component B	SikaBiresin® TD151 , amine, unfilled, transparent

PHYSICAL PROPERTIES

Components		Resin (A)	Hardener (B)
		SikaBiresin® TD150	SikaBiresin® TD151
Viscosity, 25 °C	mPa.s	~ 500	~ 100
Mixing ratio	in parts by weight	100	90
	in parts by volume	100	100
Mixture			
Colour		transparent	
Viscosity, 25 °C	mPa.s	~ 220	
Reactivity on 500 g, 23 °C	h	~ 6	

MECHANICAL AND THERMAL PROPERTIES

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

Shore hardness after 24h @ 23°C	ISO 868	Shore A1 / A15	65 / 34
Shore hardness after 7 days @ 23°C	ISO 868	Shore A1 / A15	65 / 34
Glass transition temperature (TG)	ISO 11359-2	°C	10

PACKAGING UNITS

- | | |
|---|-------------------------|
| ■ Resin (A), SikaBiresin® TD150 | 1000 kg / 220 kg / 5 kg |
| ■ Hardener (B), SikaBiresin® TD151 | 200 kg / 4.5 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 bucket and finish the mixing. Scrap well the walls of the mixing container. Leave the mixing for a self-degassing for at least 15 to 30 minutes prior to cast or use a vacuum chamber.
- Prolonged intensive UV exposure can lead to optical changes or changes in transparency.

STORAGE CONDITIONS

Shelf life	■ Resin (A), SikaBiresin® TD150	12 months
	■ Hardener (B), SikaBiresin® TD151	12 months
Storage temperature	■ Resin (A), SikaBiresin® TD150	15 – 25 °C
	■ Hardener (B), SikaBiresin® TD151	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

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April 2022, Version 01
Sika Advanced Resins

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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