

TEMPORARY PRODUCT DATA SHEET

SikaBiresin® TR154 / SikaBiresin® TD150

HIGH GLOSS TRANSPARENT SURFACE COATING WITH DOMING EFFECT FOR “PROS”

APPLICATIONS

Glass clear epoxy resin for art and decoration dedicated to professionals requiring a transparent surface coating with a 3D doming effect

MAIN PROPERTIES

- High transparency with good UV resistance
- 3D doming effect
- High hardness for easy polishing and high gloss
- Easy to use with 2:1 mixing ratio by volume
- Can be applied on any surface (wood, paper, stone, etc...)
- Thickness coating 1 to 3 mm

DESCRIPTION

Basis	Two component epoxy system
Component A	SikaBiresin® TR154 (A) , Epoxy resin, bluish-transparent
Component B	SikaBiresin® TD150 (B) , Amine hardener, transparent

PHYSICAL PROPERTIES

		Resin (A)	Hardener (B)
Components		SikaBiresin® TR154	SikaBiresin® TD150
Viscosity, 25 °C	mPa.s	~ 8,700	~ 100
Density, 25 °C	-	~ 1.16	~ 1.05
Mixing ratio, 25 °C	in parts by weight	100	45
Mixing ratio, 25 °C	in parts by volume	100	50
		Mixture	
Colour		Transparent	
Viscosity , 25°C		~ 900	
Pot life, 145 g, 25 °C	min	~ 60	
Tack-free time in thin layer 1-3mm, 25°C	hours	~ 7 - 8	

MECHANICAL PROPERTIES

approx. values on standard-sized specimen / after curing 24h RT + 16h @ 80°C

Shore hardness after 24h@23°C	ISO 868	Shore D1	D 81
Shore hardness final	ISO 868	Shore D1	D 85
Flexural strength	ISO 178	MPa	112
Flexural modulus	ISO 178	MPa	2970
Tensile strength	ISO 178	MPa	58
Elongation at maximum strength	ISO 527	%	7
Glass transition temperature (TG) after 24h@23°C + 16h@40°C	ISO 11359-2	°C	54
Glass transition temperature (TG) after 24h@23°C + 16h@80°C	ISO 11359-2	°C	84

PACKAGING UNITS

- | | |
|---|-------------------------------|
| ■ Resin (A), SikaBiresin® TR154 | 220 kg / 5 kg net |
| ■ Hardener (B), SikaBiresin® TD150 | 950 kg / 200 kg / 2.25 kg net |

PROCESSING DATA

- Materials and room temperature must be in the range of 18-25°C and humidity below 75% to process in good conditions SikaBiresin® TR154/SikaBiresin® TD150(B) system.
- 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 and apply thin surface layer.
- SikaBiresin® TR154/SikaBiresin® TD150(B) system will adhere naturally to most surfaces like wood, paper, ceramic etc... We recommend though customer to carry out an initial test and contact our local technical assistance in case needed.
- Thin layer could be applied by hand wearing protective gloves, by flexible spatula or by brush to obtain even coating layer in which the mixture will further degas.
- For a complete removal of air bubbles on the surface, right after surface is fully covered and flattened, we recommend the use of a gas torch with a light flame browsing over the surface from 15-20 cm distance.
- Let cure at room temperature for at least 24h.
- A thin sanding and polishing are possible to achieve highest gloss. Use appropriate tools in order to avoid heat on the resin when polishing. Water sandpaper is advised.

STORAGE CONDITIONS

Shelf life	■ Resin (A), SikaBiresin® TR154	12 months
	■ Hardener (B), SikaBiresin® TD150	12 months
Storage temperature	■ Resin (A), SikaBiresin® TR154	+ 15°C to +25°C
	■ Hardener (B), SikaBiresin® TD150	+ 15°C to +25°C
Opened packagings	■ Containers must be closed tightly immediately after use to prevent moisture and dust 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 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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