

PRODUCT DATA SHEET

SikaBiresin® RE 915-92 RESIN*

*(previously RE 42915-(92))

ELECTRICAL EPOXY RESIN

SINGLE COMPONENT – HOT CURE

DESCRIPTION

Single component liquid epoxy resin for moulding, potting electrical and electronic devices.
Example : Automotive sensor.

PROPERTIES

- Rigid
- Low coefficient of thermal expansion
- Storage at room temperature
- Good chemical resistance

PHYSICAL PROPERTIES

Composition			RESIN
			SikaBiresin® RE 915-(92)
Aspect			liquid
Colour			Black
Viscosity at 25 °C	(mPa.s)	ISO 2555 : 2018	60,000
Viscosity at 60 °C	(mPa.s)	ISO 2555 : 2018	2,800
Specific gravity at 25 °C	(g/cm ³)	ISO 1675 : 1985	1.60
Gel time at 120 °C (10 g)	(min)	Gel Timer TECAM	19

MECHANICAL PROPERTIES at 23 °C ⁽¹⁾

Hardness	ISO 868 : 2003	Shore D1/D15	91/90
Tensile Strength		MPa	63
Elongation at break	ISO 527 : 1993	%	1.2
Flexural modulus		MPa	5,650
Flexural strength	ISO 178 : 2010	Mpa	95

(1) Average values obtained on standard specimens / Hardening 1 hours at 100°C + 3 hours at 140°C and 24 hours at 23°C

THERMAL AND SPECIFIC PROPERTIES ⁽¹⁾

Working temperature	-	°C	-50 to +150
Thermal conductivity	EN 993-15	W/m.K	0.6
Glass transition temperature (T _g)	ISO 11359 : 2002	°C	145
Coefficient of thermal expansion (CTE) [+0 to +100]°C	ISO 11359 : 1999	10 ⁻⁶ K ⁻¹	31
Water absorption (23°C – 24 Hours)	ISO 62 : 1999	%	0.1
Directive 2015/863/EU (ROHS) ⁽²⁾	-	-	Conform

(1) Average values obtained on standard specimens / Hardening 1 hours at 120°C + 2 hours 150°C and 24 hours at 23°C.

(2) European directive on the restriction of the use of certain hazardous substances electrical and electronic equipment.

DIELECTRIC AND INSULATING PROPERTIES at 23°C ⁽¹⁾

Dielectric strength (50 Hz - 1 mm)	CEI 60243-1 E2 :1998	kV/mm	-
Dielectric constant ϵ (100 Hz) +25°C	CEI 60250 : 1969	-	-
Dissipation factor $\tan \delta$ (100 Hz)	CEI 60250 : 1969	-	-
Volume resistivity (1.000 V)	CEI 60093 E2 : 1980	Ω .cm	-

(1) Average values obtained on standard specimens / Hardening 1 hours at 100°C + 3 hours at 140°C and 24 hours at 23°C

PROCESSING

- Mix the resin to homogenize the fillers that may settle, before casting, degas under vacuum.
- When return at room temperature, SikaBiresin® RE 915-(92) may have solid aspect due to the crystallization of the resin. This state is reversible and disappears after storage 12 to 16 hours at 40°C. This operation doesn't change the characteristics of the product.

HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products :

- Ensure good ventilation.
- Wear gloves, glasses and protective clothes.

For further information, please consult the Safety Data Sheets.

STORAGE CONDITIONS

Shelf life in a dry place and in original unopened container is :

- 6 Months at + 5°C to 25 °C
- 12 months at -18°C to + 5°C

Exposure at temperature between 50°C and 60°C leads to a reaction that can increase the viscosity.

Any open can must be tightly closed under dry inert gas (dry air, nitrogen, etc...).

PACKAGING

Packaging information on request, please contact your local sales representative or find your local contact on www.sikaadvancedresins.com

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.

VALUE BASES

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Sika Advanced Resins

All technical data stated in this Product Data Sheet 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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