

PRODUCT DATA SHEET

SikaBiresin® RE 801-26 RESIN /SikaBiresin® RE 204 HARDENER*

*(previously RE 22801-(26) / RE 204)

ELECTRICAL EPOXY RESIN SEMI-FLEXIBLE – SELF-EXTINGUISH UL 94

DESCRIPTION

Casting resin for mechanical and numerous electrical applications especially for low or medium voltage when requiring an extinguishing characteristic.

Example: capacitors, transformers.

PROPERTIES

- Semi-rigid
- Good thermal shock resistance
- Good thermal conductivity
- Self-extinguish UL 94 V0 6 mm

PHYSICAL PROPERTIES

Composition		RESIN SikaBiresin® RE 801-26	HARDENER SikaBiresin® RE 204	MIXED	
Mix ratio by weight		100	16		
Mix ratio by volume at 25 °C		100	25,6		
Aspect		liquid	liquid	Liquid	
Colour		beige	clear amber	beige	
Viscosity at 25 °C	(mPa.s)	ISO 2555 : 2018	11.000	470	3.500
Specific gravity at 25 °C	(g/cm ³)	ISO 1675 : 1985	1,60	1,03	-
Specific gravity cured solid		ISO 2781 : 1996	-	-	1,52
Gel time at 25 °C (200 g)	(min)	Gel Timer TECAM			55

MECHANICAL PROPERTIES at 23 °C ⁽¹⁾

Hardness	ISO 868 : 2003	Shore D1 / D15	80 / 66
Tensile Strength		MPa	15
Elongation at break	ISO 527 : 1993	%	15

(1) Average values obtained on standard specimens / Hardening 16 hours at 80°C and 24 hours at 23°C

THERMAL AND SPECIFIC PROPERTIES ⁽¹⁾

Working temperature	-	°C	-50 to + 120
Maximun working temperature	-	°C	+130
Thermal conductivity	EN 993-15	W/m.K	0,60
Glass transition temperature (Tg)	ISO 11359 : 1999	°C	40
Coefficient of thermal expansion (CTE) [-40 to +0]°C [+60 to +100]°C	ISO 11359 : 1999	10 ⁻⁶ K ⁻¹	60 160
Auto-extinguishing	UL94 : 1979	6 mm	V0 ⁽³⁾
Water absorption (23°C – 24 Hours)	ISO 62 : 1999	%	0,14
Directive 2015/863/EU (ROHS) ⁽²⁾	-	-	Conform

(1) Average values obtained on standard specimens / Hardening 16 hours at 80°C and 24 hours at 23°C.

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

(3) File E113398

DIELECTRIC AND INSULATING PROPERTIES at 23°C ⁽¹⁾

Dielectric strength (50 Hz - 1 mm)	CEI 60243-1 E2 : 1998	kV/mm	25
Dielectric constant ϵ (100 Hz)	CEI 60250 : 1969	-	5,5
Dissipation factor $\tan \delta$ (100 Hz)	CEI 60250 : 1969	-	0,09

(1) Average values obtained on standard specimens / Hardening 16 hours at 80°C and 24 hours at 23°C

PROCESSING

- Settling may be observed on the RESIN. In that case, it is necessary to mix the RESIN part until both colour and aspect become homogeneous. This is not harmful for the product quality.
- Both parts (RESIN and HARDENER) have to be mixed at a temperature higher than 18°C according to the mix ratio indicated on the technical data sheet. Before casting check that parts or moulds are free of any trace of moisture.

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 is 12 months for the RESIN and 6 months for HARDENER in a dry place and in their original unopened containers at a temperature between 15 to 25°C.
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

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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