BP TECHNOLOGIES
A Division of BIG PIX GRAPHIC SYSTEMS, INC.
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EPOLAM 2017 RESIN

Biresin® CH125-1 – EPOLAM 2017 - 2018 HARDENERS
LAMINATING EPOXY RESIN
Tg 80°C

DESCRIPTION

Production of composite structures by wet lay-up method, infusion, vacuum and low pressure injection.
Good behavior on wood impregnation and bonding.

PROPERTIES

- *Good mechanical properties*
- *Low viscosity*
- *Compatible hardeners*
- *Good behavior in moist environnement*

PHYSICAL PROPERTIES					
RESIN		**EPOLAM 2017 RESIN**	-	-	-
HARDENERS		-	**Biresin® CH125-1 Fast HARDENER**	**EPOLAM 2017 Standard HARDENER**	**EPOLAM 2018 Slow HARDENER**
Mix ratio by weight Mix ratio by volume		100	25 29	30 35	30 35
Aspect		liquid	liquid	liquid	liquid
Colour		light amber	light amber	light amber	light amber
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	2,850	10	20	10
Density at 25°C (g/cm^3)	ISO 1675 : 1985	1.17	1.0	0.96	0.96

Pot life at 25°C on 500g	-	min.	15	35	160
Viscosity at 25°C	BROOKFIELD LVT	mPa.s	380	550	350
Specific gravity at 23°C	ISO 2781 : 1996		1.16	1.16	1.16
Gelation time at 23°C on laminate (5 plies / glass fabric 290 g/m^2)	LT 051 : 1998	hr	1	1hr20	6
Demolding time at 23°C on laminate (5 plies / glass fabric 290 g/m^2)	-	hr	4 max	5-6	24-28

PROCESSING CONDITIONS

After mixing according to the indicated ratio, impregnate the reinforcements (glass, aramid, carbon).
To obtain the desired temperature resistance and the optimal mechanical properties it is necessary to make a post-treatment of EPOLAM 2017 system. Post cure: 12 to 36 h RT +.2 hours at 45°C + 2 h at 60°C + 8 h at 80°C
Working at 20°C minimum ensures a very good start of curing of EPOLAM 2017-2018 system.
For intermediate hardening time and pot life, please refer to annex 1: page 3

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MECHANICAL AND THERMAL PROPERTIES at 23°C (1)					
RESIN			EPOLAM 2017 RESIN		
HARDENERS			Biresin® CH125-1 HARDENER	EPOLAM 2017 HARDENER	EPOLAM 2018 HARDENER
Flexural modulus	ISO 178 : 2001	MPa	2,400	3,000	2,750
Flexural strength	ISO 178 :2001	MPa	100	132	108
Tensile Modulus	ISO 527 : 1993	MPa	2,500	3,700	3,200
Tensile strength	ISO 527 : 1993	MPa	70	73	68
Elongation at break	ISO 527 : 1993	%	8	5.6	6
Hardness	ISO 868 : 2003	Shore D15	87	88	86
Glass transition temperature	ISO 11359 : 2002	°C	110	89	83
Deflection temperature	ISO 75 : 2004	°C	92	84	75

(1): Average values obtained on standard specimens of pure resin / Hardening 24 hr at 23°C + 16 hr at 80°C.

HANDLING PRECAUTIONS

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

- *ensure good ventilation*
- *wear gloves, safety glasses and waterproof clothes.*

For further information, please consult the product safety data sheet.

STORAGE CONDITIONS

Shelf life of EPOLAM 2017 Resin is 24 months. Shelf life of Biresin® CH125-1, EPOLAM 2017 and EPOLAM 2018 Hardeners is 12 months. Expiry date indicated on the packaging.

PACKAGING

EPOLAM 2017 RESIN	Biresin® CH125-1 HARDENER	EPOLAM 2017 HARDENER	EPOLAM 2018 HARDENER
1.000 kg	*940 kg*		*180 kg*
200 kg	*180 kg*	*18 kg*	*18 kg*
20 kg	*25 kg*	*6 kg*	*6 kg*
5 kg	*3 kg*	*1.5 kg*	*1.5 kg*

GUARANTEE

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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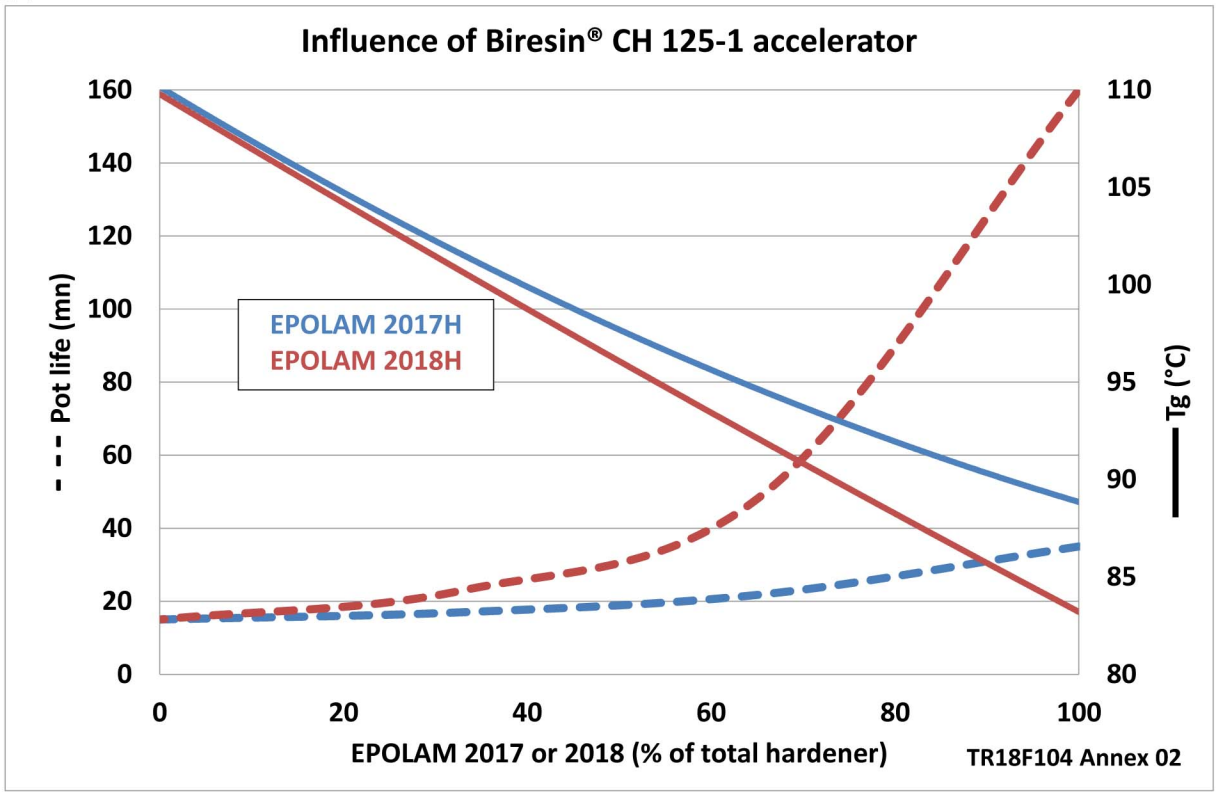
Annex 1



Example: Mixing of hardeners for 100 grams of resin.

Hardener Biresin® CH125-1	**25**	**20**	**15**	**10**	**5**	**0**
Hardener EPOLAM 2017	0	6	12	18	24	30
Hardener EPOLAM 2018	0	6	12	18	24	30