

# EPOLAM 2017

## Laminating epoxy resin



- ✓ Improved reactivity vs Epolam 2015,
- ✓ Good wet ability,
- ✓ Available in large and small packaging,
- ✓ Different hardeners available,
- ✓ Improved health and safety,
- ✓ Wood bonding abilities,
- ✓ Approved by Lloyd's Register.

### Marine industry:

Parts production by wet lay up  
Strip planking / wood works....

### General industry:

Composite parts  
Epoxy concrete / reinforcements etc...



Feel free to be in touch with Arnaud Zuretti for any further information regarding all laminating epoxy range.



## REASON FOR DEVELOPMENT

- Need a system with faster curing hardener abilities compared to EPOLAM 2015 – accelerate completion / sanding etc..

## SYSTEM 2017 to HARDENER SETS.

		RESIN	HARDENER	HARDENER	HARDENER
		EPOLAM 2017 RESIN	EPOLAM 2013 ultrafast HARDENER	EPOLAM 2017 Standard HARDENER	EPOLAM 2018 Slow HARDENER
<b>PHYSICAL PROPERTIES</b>					
Mix ratio by weight			30	30	30
Mix ratio by volume		100	36	35	35
Aspect		liquid	liquid	liquid	liquid
Colour		light amber	light amber	light amber	light amber
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	4	25	20	10
Density at 25°C (g/cm <sup>3</sup> )	ISO 1675 : 1985	1.17	1,0	0.96	0.96
Pot life at 25°C on 500g	-	min.	8	35	160
Mixed Viscosity at 25°C	BROOKFIELD LVT	mPa.s	1400	700	400
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 <sup>2</sup> )	LT 051 : 1998	hr	35-40 min	1.2	6
Demolding time at 23°C on laminate (5 plies / glass fabric 290 g/m <sup>2</sup> )	-	hr	4 max	5 - 6	24-28

<b>MECHANICAL AND THERMAL PROPERTIES at 23°C (1)</b>					
RESIN			EPOLAM 2017 RESIN		
HARDENERS			EPOLAM 2013 HARDENER	EPOLAM 2017 HARDENER	EPOLAM 2018 HARDENER
Flexural modulus	ISO 178 : 2001	MPa	2,800	3,000	2,750
Flexural strength	ISO 178 :2001	MPa	100	132	108
Tensile Modulus	ISO 527 : 1993	MPa	3,000	3,700	3,200
Elongation at break	ISO 527 : 1993	%	3	5.6	6
Hardness	ISO 868 : 2003	Shore D15	86	88	86
Glass transition temperature	ISO 11359 : 2002	°C	70	89	83
Deflection temperature	ISO 75 : 2004	°C	66	84	75

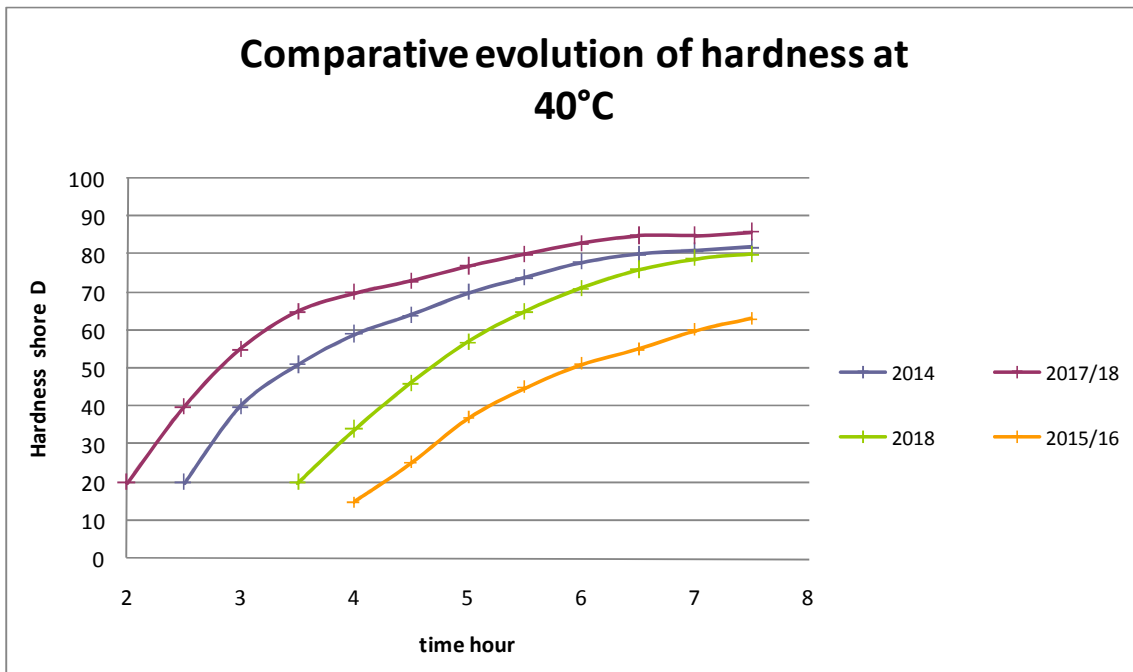
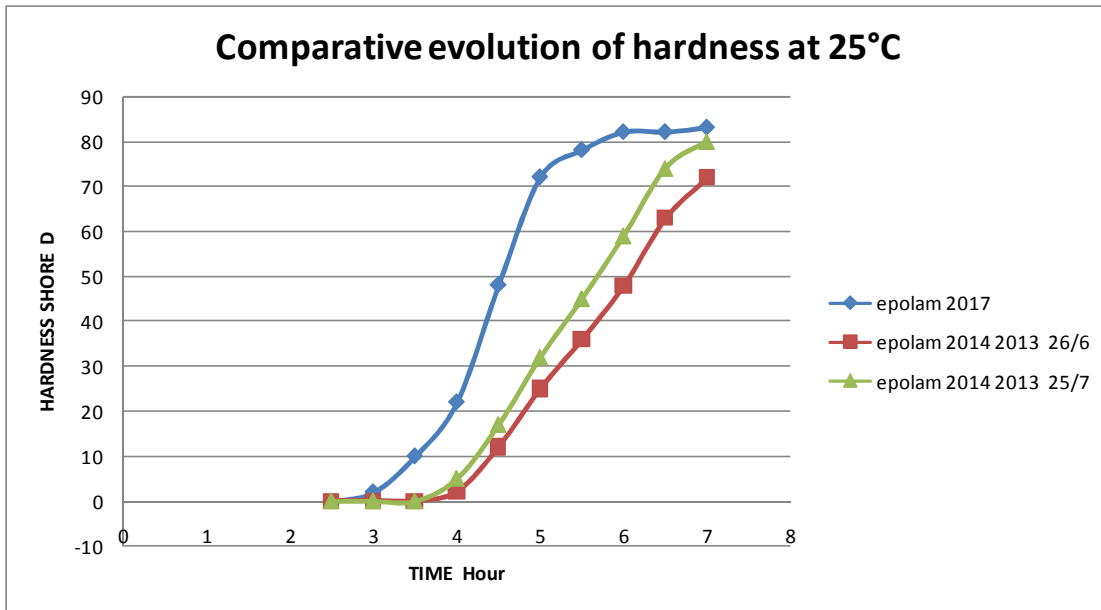
(1): Average values obtained on standard specimens of pure resin / Hardening 24 hr at 23°C + 16 hr at 70°C.

**Mix 2017/2018 = 2014 performance!**

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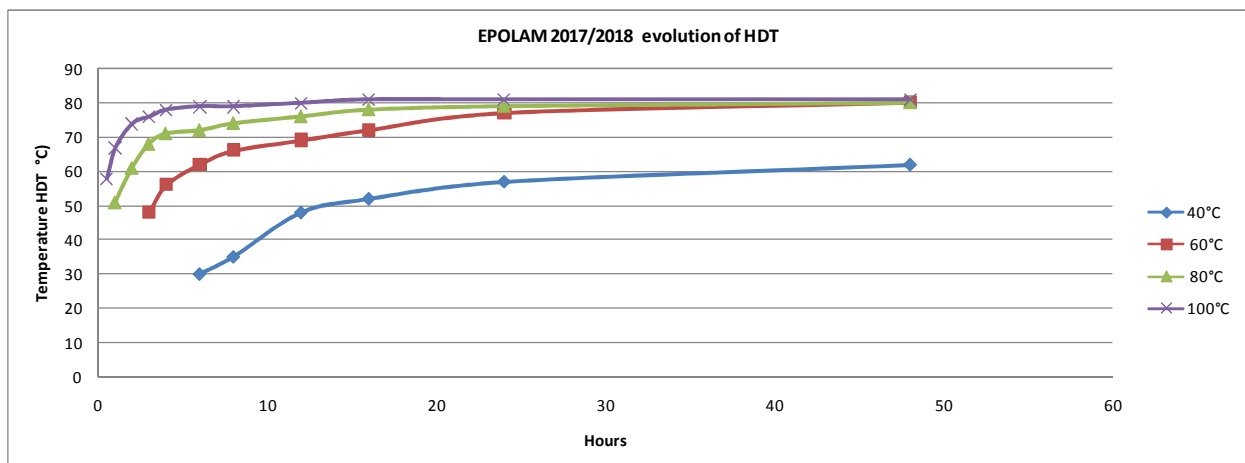
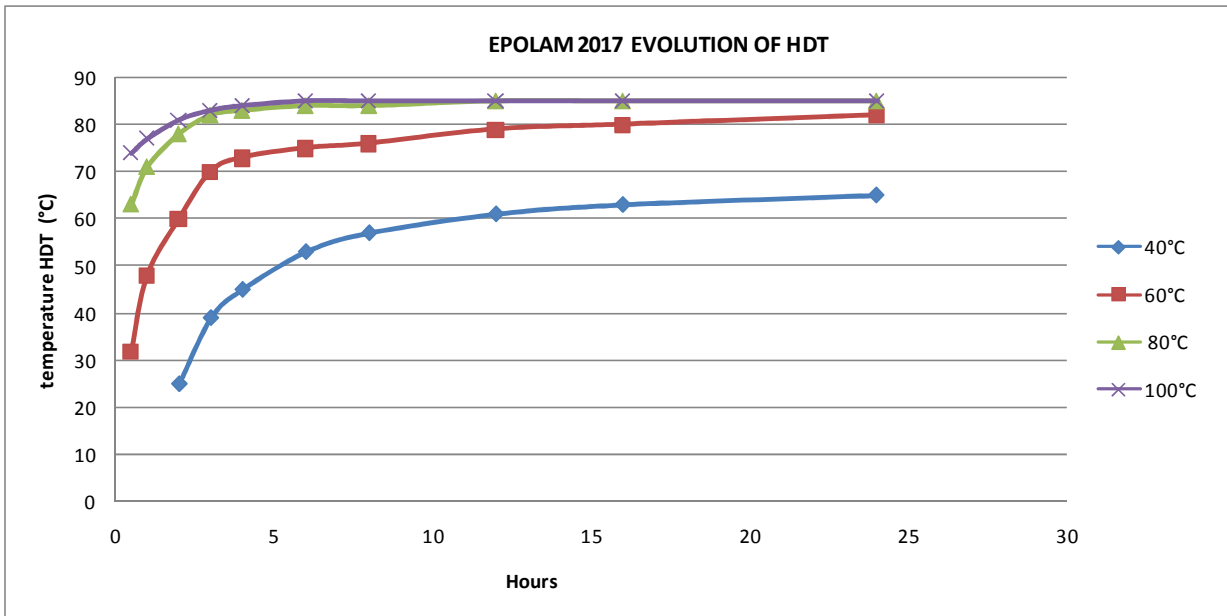
## Comparative (EPOLAM 2017 / EPOLAM 2015 evolution of hardness



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## Comparative evolution of the HDT (heat deflection temperature) vs curing time



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## ORDERING / code and Packaging :



CODE	REFERENCES
08156	EPOLAM 2017   HARD   1.8 KG
08154	EPOLAM 2017   HARD   18 KG
08155	EPOLAM 2017   HARD   6 KG
08145	EPOLAM 2017   RESIN   20 KG
08144	EPOLAM 2017   RESIN   200 KG
08146	EPOLAM 2017   RESIN   5 KG
08151	EPOLAM 2018   HARD   1.8 KG
08149	EPOLAM 2018   HARD   18 KG
08150	EPOLAM 2018   HARD   6 KG

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