

DESCRIPTION

Production of composite structures by wet lay-up method or heat compression.

PROPERTIES

- Low initial viscosity
- Good wetting ability of various fabrics
- Excellent reactivity for making quick parts at room temperature
- Transparent aspect in thin layer
- Good mechanical property
- Heat resistance up to 100°C

PHYSICAL PROPERTIES				
Composition		EPOLAM 2100 RESIN	EPOLAM 2100 HARDENER	MIXED
Mix ratio by weight		100	25	
Mix ratio by volume at 25°C		100	29	
Aspect		liquid	liquid	liquid
Colour		Translucent	Translucent	Translucent
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	1900	40	-
Mixed viscosity at 25°C (mPa.s)	BROOKFIELD LVT	-	-	625
Specific gravity at 25°C (g/cm ³)	ISO 1675 : 1985	1.16	0.98	-
Specific gravity of cured product at 23°C	ISO 2781 : 1996	-	-	1.15
Pot life at 25°C on 123 g (min)	Gel Timer TECAM			20
Exotherm temperature at 20°C on 100 g (°C)	ASTM D 2471-99			244
Time to reach exotherm at 20°C on 100 g (min)	ASTM D 2471-99			27

MECHANICAL PROPERTIES at 23°C (1)			
Hardness	ISO 868 : 2003	Shore D1	87
Flexural modulus	ISO 178 : 2010	MPa	2900
Flexural strength	ISO 178 : 2010	MPa	136
T _g after 24h at 23°C + 16h at 60°C	ISO 11359-2 : 1999	°C	82
T _g after 24h at 23°C + 16h at 100°C	ISO 11359-2 : 1999	°C	103

(1) Average values obtained on standardized specimens / Hardening 24h at 23°C + 16h at 60°C

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, after let cure 24hrs at room temperature it is necessary to make a post-curing treatment of EPOLAM 2100 system either 16hrs at 60°C to obtain 82°C T_g or a further 16hrs at 100°C to obtain highest 100°C T_g.

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 2100 RESIN is 24 months, EPOLAM 2100 HARDENER is 12 months in a dry place and in their original unopened containers at a temperature between 15 and 25°C

Any open must be tightly closed under dry nitrogen.

PACKAGING

EPOLAM 2100 RESIN	EPOLAM 2100 HARDENER	EPOLAM 2100 KIT
220 kg	18.33 kg	(220 + 3x18.33) kg
20 kg	5 kg	(20+5) kg

GUARANTEE

The information of our technical data sheet are based on our present knowledge and the result of tests conducted under precise conditions. It is the responsibility of the user to determine the suitability of **Sika Advanced Resins** products, under their own conditions before commencing with the proposed application. **Sika Advanced Resins** refuse any guarantee about the compatibility of a product with any particular application. **Sika Advanced Resins** disclaim all responsibility for damage from any incident which results from the use of these products. The guarantee conditions are regulated by our general sale conditions..