

DESCRIPTION

Production of composite structures by the usual impregnation methods (contact, under vacuum...). Used in concrete by addition of aluminium fillers or other ones.

PROPERTIES

- MDA free
- Very good temperature resistance
- Good wetting of the reinforcements
- Low shrinkage after curing

PHYSICAL PROPERTIES				
Composition		RESIN	HARDENER	MIXED
Mix ratio by weight		100	41	
Mix ratio by volume at 25°C		100	47	
Aspect		liquid	liquid	liquid
Colour		amber	dark amber	amber
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	4,000	200	2,000
Specific gravity at 25°C	ISO 1675 : 1985	1.16	1.02	-
Specific gravity of cured product at 23°C	ISO 2781 : 1996	-	-	1.12
Pot life at 25°C on 500 g (min)	Gel Timer TECAM			150

MECHANICAL PROPERTIES at 23 °C (1)			
Flexural modulus	ISO 178 :2001	MPa	2,800
Flexural strength	ISO 178 :2001	MPa	62
Tensile strength	ISO 527 :1993	MPa	40
Final hardness	ISO 868 :2003	Shore D15	90
Glass temperature transition (T _g)	ISO 11359 : 2002	°C	190

(1) : Average values obtained on standard specimens after curing as per thermal treatment recommended below.

PROCESSING CONDITIONS

LAMINATING : After mixing according to the indicated ratio carry out impregnation of the reinforcements. Let polymerise 24 hours at room temperature. **Then cure 24 hours at 45°C.**

Then demould and cure (see § Thermal treatment). Laminating thickness must not exceed 10 mm. In the case of a laminating recovery a peel-ply fabric is recommended.

CONCRETE : To produce an aluminium concrete, use 120 g to 150 g of EPOLAM 2080 mix, for 500 g of RZ 1019 granulate + 500 g of RZ 1021 of granulate. Mix the whole together using a planetary agitator and tamp down on to the laminate which is not still gelled.

THERMAL TREATMENT

In order to avoid any risk of distortion or tooling shrinkage a precise curing cycle is to be observed. Reminder : demoulding takes place only after a 24 hour pre-curing at 45°C. A conformer is recommended for complex shapes. Then the following thermal treatment can be carried out : 1 hour at 60°C, 1 hour at 80°C, 2 hours at 120°C and 4 hours at 160°C and observe an increase and a decrease in temperature of 20°C per hour between stages.

If it is question of production of a concrete, then double or triple preferably the length of stages to ensure a good curing.

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 is 9 months for Resin and 24 months for Hardener in a dry place and in original unopened containers at a temperature between 10 and 25°C. Any open can must be tightly closed under dry nitrogen blanket..

PACKAGING

RESIN	HARDENER
1 x 5 kg	1 x 2.05 kg
1 x 20 kg	1 x 8.20 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 AXSON products, under their own conditions before commencing with the proposed application. AXSON refuse any guarantee about the compatibility of a product with any particular application. AXSON 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.