



PHYSICAL PROPERTIES

	RESIN 2010	HARDENER 2010	HARDENER 2011	HARDENER 2012
Mixing ratio by weight	100	50	50	50
Mixing ratio by volume	100	59	59	59
Aspect : liquid	Light amber	Light amber	Light amber	
Specific gravity at 25°C	1.16	0.98	0.98	0.98
Brookfield Viscosity at 25°C (mPa.s)	14000	70	60	50

Mixing Brookfield viscosity at 25°C		1000 mPa.s	900 mPa.s	800 mPa.s
Pot-life (450 g) at 25°C		30 - 35 min	60 - 70 min	2 h - 2 h 30

MECHANICAL AND HEAT PROPERTIES

Mixing resin Epolam 2010/Hardener		2010	2011	2012
Final hardness (ISO 868)	D Shore	83	83	83
Tg (TMA) *	°C	50	50	55
Tensile strength * (ISO 527)	MPa	65	55	50
Compressive yield strength * (ISO 604)	MPa	85	75	70
Flexural strength * (ISO 178)	MPa	100	90	90
Flexural modulus of elasticity* (ISO 178)	MPa	3 000	2 700	2 500
Maximal laminating thickness	mm	8	10 - 12	15 - 20
Demoulding time at room temperature	h	16	24	36
Complete hardening time at room temperature	d	3	5	7

* The above properties are obtained using standardized specimens after curing 15 hours at 40°C.

PACKAGING

RESIN

1x20.000 kg
1x50.000 kg
1x 220.000 kg

HARDENERS

1x5.000 kg
1x50.000 kg
1x200.000 kg



APPLICATIONS

The epoxy system, which is made up of a resin and three hardeners compatible between them, is designed for the production of tools by impregnation.
The system can be employed as a gel coat, casting or concrete if fillers are added.

PROPERTIES

Variable reactivity
Easy use
Good wetting of reinforcements or fillers
No foam
Low modulus
Possibility of mixing hardeners compatible between them to obtain intermediate reactivities (see table of hardeners combination).

REMARKS

The user must keep in mind that the amount of mixed hardeners (versus respected reactivity) must be calculated as follows:

$$1000 \text{ g R} + X\text{gH}_1 + Y\text{gH}_2 = 1500 \text{ g with } X+Y = 500 \text{ g.}$$

PROCESSING

Prepare a homogeneous mix according to the indicated ratio.

In case of gel coat: after mixing resin and Epolam 2010 hardener, add the fillers to obtain a gel. Apply with a brush on a mould prepared (polished wax).

In case of laminate: the hardener is to adapt according to the dimension and the complexity of the application in order to use ideally the resin.

In case of concrete: after mixing resin with hardeners (2011, 2012) add fillers (aluminium, sand or others) as follows:

Alluminium concrete: 100 to 120 g Resin+Hardener + 500 g RZ 1019 + 500 g RZ 1020

Sand concrete: 100 to 120 g Resin+Hardener + 500 g sand F1 + 500 g sand G2

PRECAUTIONS

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

- . ensure good ventilation
- . wear gloves and safety glasses

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

STORAGE

Shelf life is 1 year in a dry place and in original unopened containers at a temperature between 15 and 25°C.

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.