

APPLICATIONS

Flexible moulds for manufacturing parts by casting (gypsum, resin). Tools for composite applications.
Self-demoulding moulds for decorative concrete parts.

CARACTERISTIQUES

- Vulcanised by polyaddition
- Excellent reproduction of details
- Low linear shrinkage
- Low viscosity
- Good tear strength
- Friendly use (1:1 mix ratio)

PHYSICAL PROPERTIES				
Composition		RESIN	CATALYST	MIXED
Mix ratio by weight		100	100	
Aspect		thick liquid	Thick liquid	thick liquid
Colour		white	green	green
Viscosity at 23°C (mPa.s)	BROOKFIELD LVT	10 000	10 000	10.000
Specific gravity at 25°C (g/cm ³)	ISO 1675 : 1985	1,20	1,20	-
Specific gravity of cured product at 23°C	ISO 2781 : 1996	-	-	1,20
Pot life at 35°C on 200 g (min)	Gel Timer TECAM			25

MECHANICAL PROPERTIES at 23°C (1)				
Hardness		ISO 868 : 2003	Shore A1	30
Tensile strength		ISO 37 : 2004	MPa	5
Elongation at break		ISO 37 : 2004	%	400
Tear strength		ASTM D624	kN/m	15
Demoulding time at 23°C		-	h	24
Linear shrinkage			%	0.1

(1) : Average values obtained on standard specimens / Hardening 24h at 23°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.



BUILDING TRUST



ESSIL 230

POLYADDITION SILICONE ELASTOMER
Hardness 30 SHORE A

PROCESSING

Mix according to the indicated ratio (by hand or low speed electric or pneumatic mixer). To eliminate the bubbles it is advised to degas under a vacuum of 30 to 50 mbar. Use a container 4 times bigger than the volume of mixing. Do not heat mixing above 35°C when preparing.

REMARKS

It is possible to heat ESSIL 230 to accelerate its hardening but this may induce a higher shrinkage than the one obtained at 23°C as well as a higher hardness. 60°C for 4 hours is a maximum.

Inhibition: Polyaddition silicone elastomers show a quite high sensitivity towards some substances like amines, sulphides or catalysts of other types of silicones (eg: polyester mastics, modelling pastes, some polycondensation silicones). The effect of this irreversible inhibition is a sticky surface aspect in contact with the inhibitor agent.

STORAGE CONDITIONS

Shelf life of both parts is 12 months in a dry place and in their original unopened containers at a temperature between 15 and 25°C.

PACKAGING

RESIN ESSIL 230 1 x 200 kg	CATALYST ESSIL 230 1 x 200kg
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GUARANTEE

The information contained in this technical data sheet result from research and tests conducted in our Laboratories 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 guarantee the conformity of their products with their specifications but cannot guarantee 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 responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.

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