

APPLICATIONS

Flexible moulds for prototypes industry (gravity casting or under vacuum).
Self-demoulding moulds for decorative concrete parts

CARACTERISTIQUES

- Vulcanised by polyaddition
- Very good temperature resistance
- High tear strength
- Very low viscosity
- Mix ratio 100 : 100
- Quick setting time

PHYSICAL PROPERTIES				
Composition		RESIN	CATALYST	MIXED
Mix ratio by weight		100	100	
Aspect		thick liquid	liquid	thick liquid
Colour		Light blue	transparent	Light blue
Viscosity at 23°C (mPa.s)	BROOKFIELD LVT	3.000	4.000	4.000
Specific gravity at 25°C (g/cm ³)	ISO 1675 : 1985	1,13	1,13	-
Specific gravity of cured product at 23°C	ISO 2781 : 1996	-	-	1,13
Pot life at 25°C on 100 g (min)	Gel Timer TECAM			10

MECHANICAL PROPERTIES at 23°C (1)			
Hardness	ISO 868 : 2003	Shore A1	22
Tensile strength	ISO 37 : 2004	MPa	4
Elongation at break	ISO 37 : 2004	%	380
Tear strength	ASTM D624	kN/m	20
Demoulding time	-	min	60

(1) : Average values obtained on standard specimens / Hardening 7 days 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.

PROCESSING

Mix according to the specified ratio. To eliminate air bubbles it is advisable to perform a repeated degassing: alternate the vacuum and return to atmospheric pressure. Perform the operation as many times as necessary. Use a container 5 times larger than the volume of the mixture. Do not heat mixing above 35°C when preparing.

REMARKS

It is possible to heat ESSIL 222 to accelerate its hardening but this may incur a higher shrinkage than the one obtained at 23°C as well as a higher hardness.

Inhibition: Polyaddition silicon elastomers show a quite big sensitivity beside some substances like amines, sulphides or catalysts of other types of silicones (eg: polyester mastics, modelling pastes). 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 20 months in a dry place and in their original unopened containers at a temperature between 15 and 25°C.

PACKAGING

RESIN ESSIL 222 1 x 5 kg	CATALYST ESSIL 222 1 x 5 kg
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GUARANTEE

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