POOLKEMIE

Liquid Rubbers & Resins
Chemicals for Industry & Artworks

SILIMOLD AD-150

RTV2 silicon moulding rubber

INTRODUCTION:

It is a two component room temperature vulcanising pourable fluid silicon which cures on the addition of the appropriate CATALYST AD, according to the polyaddition process.
SILIMOLD AD-150 silicon rubber is characterized by its high hardness and a high tearing resistance. Thanks to these properties, it may also be utilized in the manufacture of moulds with many undercuts.

APPLICATION:

SILIMOLD AD-150 silicon rubber is especially designed for prototype mould making.

PECULIARITIES:

Addition cure
Superior detail reproduction
Convenient 10:1 mixing ratio
Free of solvents
Low linear shrinkage
High tear strength, good elongation and inherent release characteristics
Cure without measurable exotherm
Colour contrast between base compound and curing agent
Self levelling

PACKING:

Component A: 5 Kg. – 25 Kg. Plastic bucket
Component B: 0,5 Kg. – 2,5 Kg. Plastic bottle

SHELF LIFE:

Both components (A and B) 6 months in their original tightly closed containers, in a dry and cool place , away from moisture and at temperature between +10°C and +28°C.

TRANSPORT:

RID/ADR exempt: the product is not flammable.

DEAREATION AND PRECAUTION:

Any air trapped during the mixing cycle should be removed in order to avoid bubbling in the silicone rubber mould. This involves placing the container in a suitable vacuum chamber and apply a vaccum, which causes the mixture to froth to around four times its original volume. With a 20 mm. vacuum, deareation is completed approximately 2 minutes after the frothing ceases.

Curing may be inhibited if substrate contains water, sulphur, nitrogen compounds, organometallic salts, phosphorous compounds, etc. – a preliminary test is therefore recommended.

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TECHNICAL PROPERTIES

BEFORE CATALYSIS	APPEARANCE:	Thick liquid	
	COLOUR:	Component A : Component B :	Black White
	VISCOSITY:	Comp. A:	7.000 ± 5% CpS *
	VISCOSITY:	Comp. B:	11.000 ± 5% CpS *
	MIXING RATIO:	100 : 10 by weight (= 10%) Catalyst AD	
DURING CATALYSIS	POT-LIFE:	105 min.*	
	DEMOULDING TIME:	16 hours *	
	It is advisable to avoid catalysis of the product at temperatures over +30°C		
AFTER CATALYSIS	APPAREANCE:	Flexible rubber	
	COLOUR:	Black	
	HARDNESS SHORE A :	48 ± 2 (DIN 53505)	
	TEARING STRENGHT:	12 N/MM. ± 0,5 (ASTM D 624 S A 3)	
	TENSILE STRENGHT:	5 N/mm2 ± 0,5 (DIN 53504 - S A 3)	
	ELONGATION AT BREAK:	300 % ±30 (DIN 53504 - S A 3)	
	LINEAR SHRINKAGE:	0,1 % max. after 5 days ageing (ISO 4823)	
	FLAME RESISTANCE:	Self extinguishing (ASTM 1692)	

(*) NOTE: TESTS HAVE BEEN CARRIED OUT UNDER THESE CONDITIONS

Temperature:	+20°C
After:	24 ore
R.H.:	60%
Catalysis:	100:10

Pouring time, demoulding time and Pot Life duration depend on room temperature, R.H. and on the mixing ratio A+B.

NOTE. The information given to users is based on our best experience. However, because of the many possible applications, which are outside of our knowledge and control, we cannot accept liability for loss or damage resulting from reliance upon such information. Typical data values should not be used as a basis for product specifications.