



Factor II, Incorporated

Inventing and Innovating...

(Information: 1.928.537.8387)

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PRODUCT INFORMATION TECHNICAL PROFILE A-101 6382 MEDICAL GRADE SILICONE ELASTOMER

DESCRIPTION:

RTV Elastomer is a two-part silicone elastomer which will vulcanize at room temperature without exotherming. This material is dimensionally stable and does not become hard with age. This elastomer may be fabricated by pouring, casting, low pressure molding or brushing in place. It will cure in the presence of moisture with little or no effect on the rate or thoroughness of the cure.

TYPICAL PROPERTIES AS SUPPLIED:

CHEMICAL CLASSIFICATION: MQ

COLOR: Tan

VISCOSITY, cps: 40,000

WORKING TIME: @25• 10 Minutes

MIX RATIO: 100:0.5

TYPICAL CURED PROPERTIES:

After 24 hours @ RT.&50%R.H.

DUROMETER: 45

TENSILE STRENGTH, psi: 500

ELONGATION, %: 100

MIXING:

The two components are: Base - composed of polydimethylsiloxane
Catalyst - which is stannous octoate

A mixture of 0.5 parts of catalyst to 100 parts of base by weight; or approximately 6 drops of catalyst to 1 oz. of base will give you an approximate working time of 10 minutes, with a cure time of 30 minutes.

Thoroughly mix the elastomer base to insure a homogeneous mixture. A stainless steel spatula is recommended for mixing.

Add the catalyst as necessary and mix immediately. Mix thoroughly to insure a uniform cure rate. 1) Return base material to room temperature before using. 2) Thoroughly mix base before each use.

CATALYST CURE RATE CHART:

BASE	CATALYST	MIX TIME	WORK TIME	CURE TIME
5cc	1 drop	20 sec.	8-10 min	25-30 min.
5cc	10 drops	20 sec.	50-60 sec.	2-3 min.
25cc	5 drops	20-25 sec.	8-10 min.	25-30 min.

WORKING TIME:

The working time and the curing time can be adjusted according to the needs of the clinician from 4 minutes to 1 hour and 45 minutes by varying the amount of catalyst to base ratio.



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ADJUSTING THE RATE OF CURE:

Working and vulcanization may be extended at any catalyst concentration by pre-chilling the elastomer base, mixing equipment and molds. Vulcanization can be accelerated by use of a moderately heated mold 160F (72C) or less, or curing in a warm oven.

IMPORTANT:

Small trial mixes to determine the optimum catalyst concentration for a given application is recommended. Working and vulcanization times may be varied from as short as four minutes to as long as 100 minutes by changing the amount of catalyst. The working and vulcanization times may be extended at any given catalyst concentration by pre-chilling the elastomer base, mixing equipment and molds. Vulcanization may be accelerated by use of a moderately heated mold. 160°F. or less, or curing in a warm oven.

CAUTION:

STANNOUS OCTOATE, (the catalyst) SHOULD NEVER COME IN CONTACT WITH THE EYES. IT WILL PRODUCE IRRITATION AND COULD CAUSE POSSIBLE INJURY TO THE CORNEA. THIS PRODUCT MAY ALSO CAUSE IRRITATION TO THE SKIN.

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