



# Factor II, Incorporated

Inventing and Innovating...

(Information: 1.928.537.8387)

ONLINE ORDERING [www.factor2.com](http://www.factor2.com)

## PRODUCT INFORMATION

### A-588

### REALISTIC

### Silicone Elastomer

#### PRODUCT DESCRIPTION:

Factor II Inc. A-588 Realistic is a translucent, platinum cured, pourable 10:1 by weight multiple durometer silicone elastomer. This material will work well with the A-300-1 Thixo Agent. The clinician can control the viscosity of the silicone while working with the uncured material. This will enable you to place intrinsic coloration into the open mold before packing the base color. Bonds well to acrylic resin.

#### TYPICAL CURED PROPERTIES:

	<u>588-1</u>	<u>588-2</u>
Durometer Shore A	12	20
Tensile Strength(psi)	977	700
Tear Strength (ppi)	43	45
Elongation %	750	600

Viscosity A -----85,000 cps

#### TYPICAL CURE SCHEDULE:

A-588 is designed to cure with heat to achieve maximum physical properties  
Pot Life 6 hours

165°F            2 hours \* Recommended Cure  
212°F            30 mins. Once oven reaches temperature  
Large appliances may require longer to heat soak

#### MIXING and DEAIRING:

1. A-588 V Part A and Part B are mixed in a 10:1 ration by weight. Care should be taken to minimize air entrapment during mixing. Vacuum deairation at 28 inches Hg is recommended. Apply vacuum to a container at least four times the volume of the material to avoid overflow of the bubbles. Allow the material to reach its maximum capacity and to fall to the bottom of the container. Continue to hold the vacuum for 3-5 minutes. This will eliminate the smaller bubbles. When packing the material into a mold care should be taken to minimize trapping air bubbles.

2. Recommend Use of A-300-1 Thixo agent 1 drop per 10 gms of material. This will eliminate the need for vacuum deairation. This will also increase the viscosity of the material to a mixture, which will no longer pour.

#### IMPLANT RETAINED:

This material is designed especially for implant retained prosthesis. We have purposely given up physical properties for the workability of the material. A-103 and A-2186 elastomer clearly have twice the tear strength of A-588, but with an implant retained appliance we do not have to rely on the higher tear properties (so we have sacrificed tear) to reduce the Durometer to a softer material.

#### ADHESIVE RETAINED:

In order to obtain the lower durometer material to feel more lifelike we were forced to sacrifice tear strength. This is an extremely attractive property with adhesive retained prostheses and one which we should not sacrifice.

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To use this material to its best potential we recommend the use of multiple silicones. Prepare your models as you normally would after applying separator to the gypsum mold surface, apply one coat of TS-403, this material has a tear strength of over 200 (ppi). Allow the 1<sup>st</sup> coat to air dry for 20 to 30 minutes. Apply a second coat of TS-403 to achieve a uniform thickness and create high tear strength on the surface of your mold.

**Pack A-588:** Close and clamp mold as usual. TS-403 is heat cure only so temperature will have to be elevated to 165°F for 2-3 hours.

## **SUBSTRATE CONSIDERATIONS:**

A-588 V will cure in contact with most materials. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents. Containers and dispensers to be used with A-588 should also be clean and dry. Cure inhibition can usually be prevented by washing all containers with solvent, followed by a thorough rinsing with isopropyl alcohol

## **WARNINGS ABOUT PRODUCT SAFETY:**

Factor II technology believes that the information and data contained herein is accurate and reliable; however, it is the user's responsibility to determine suitability and safety of use for these materials. Factor II cannot know the specific requirements of each application and hereby makes the user aware that it has not tested or determined that these materials are suitable or safe for any application. It is the user's responsibility to adequately test and determine the safety and suitability for their application. Factor II makes no warranty concerning fitness for any use or purpose. There has been no testing done by Factor II to establish safety of use in any medical application. Factor II has tested this material only to determine if the product meets the applicable specification. (Please contact Factor II for assistance and recommendations when establishing specifications.) When considering the use of a Factor II product in a particular application, you should review the latest Material Safety Data Sheets and contact Factor II for any questions about product safety information you may have.

## **WARRANTY INFORMATION:**

Factor II's warranty period is 6 months from date of shipment when stored below 40°C in original unopened container.

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