

Factor II, Incorporated

Inventing and Innovating...

(Orders: 1.800.332.8688 or Information: 1.928.537.8387)

ONLINE ORDERING www.factor2.com

PRODUCT INFORMATION

VST

Platinum Silicone Elastomer

PRODUCT DESCRIPTION:

Products

Factor II Inc. series of VerSiTal silicone elastomers. The VST line is a translucent two component, 10:1 mixing by weight, low viscosity, addition cure (platinum) RTV (Room Temperature Vulcanizing) Silicone Elastomer.

Tips

This line of VST elastomers is a new concept in silicone technology. This translucent material is available in various forms.

Services

PRODUCT	CURE	SHORE A
VST-30	15 Min	30
VST-50	Overnight	30
VST-50F	2-3 hours	30

Maxillofacial

Special Effects

R & D

Training Courses

	<u>VST-30</u>	<u>VST-50</u>	<u>VST-50F</u>
Translucent	Yes	Yes	Yes
Shore A	30	30	30
Cure Time RTV	15 min	overnight	2-3 hours
Pot Life	4-6 min	2 hours	30 min
Tear Strength ppi	100	110	110
Tensile Strength psi	750	750	750
Elongation %	450	450	450
Viscosity A	15,000	15,000	15,000
Viscosity B	10,000	10,000	10,000

Consulting

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MIXING:

1. Stir the base (PartA) well before use (except when machine dispensing).
2. Shake the catalyst container (PartB) well before use.
3. Weigh the desired amount of base into a clean mixing container. Tip the container and roll the base all the way around the sidewall up to two inches from the top. This will prevent the catalyst from becoming absorbed into the container. It is recommended that the container be filled to not more than 1/4 the container depth to allow sufficient room for expansion during the deairation procedure.
4. Weigh the proper amount of catalyst into the container.
5. Mix the base and catalyst together by stirring with a stiff, flat ended metal spatula until a uniform color is obtained. Scrape the container walls and bottom well to insure a thorough mix. If mechanical mixer is used, do not exceed 150 rpm.
6. Part A and Part B are mixed in a 10:1 ratio 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.
8. Bleed air slowly into the vacuum chamber. When the chamber is at atmospheric equilibrium, remove the cover plate and take out the container.

PROCESSING INFORMATION:

CATALYZED PROCESSING PROPERTIES ARE AFFECTED BY TEMPERATURE AND HUMIDITY VARIATION

1. For best results mix and cure the material at 75°F (24°C) and 50% relative humidity.
2. Higher temperature and humidity will decrease the work life and pot life of the material. The faster cure will also affect the flow properties. Refrigeration of the base prior to use in hot environments has shown to improve the handling properties of this material.
3. Lower temperatures and humidity will increase the work life and pot life of the material. The slower cure will increase the flow time. Cure temperatures below 68°F (20°C) are not recommended and have been found to cause a reduction in final cure hardness and properties.

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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 24°C in original unopened container.

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