



Factor II, Incorporated

Inventing and Innovating...
(Information: 1.928.537.8387)
ONLINE ORDERING www.factor2.com

PRODUCT INFORMATION **FX-505 MOLD MAKING SILICONE**

PRODUCT DESCRIPTION:

Factor II Inc. FX-505 is an excellent two part Silicone Rubber designed for mold making, but is also used as a general purpose, high strength rubber. FX-505 is ideal for casting pressure pads and advanced composite tooling rubber. It is also an excellent mold making material for casting low melting metals in continuous operations of 650°F.

TYPICAL PROPERTIES AS SUPPLIED:

Ratio:10/1
ColorLight Blue
Viscosity, cps. @77°F.....70,000
Working Time: @77°F(25°C).....20-25 min
Shelf_Life:.....12 months

Specific gravity at 25°C (77F).....1:25
Hardness: Shore A:.....50+
Tensile Strength, psi.....750
Elongation, %.....320
Tear Strength,ppi.....85
Linear Shrinkage:.....Nil
Cure Time @77°F (25°C).....24 hours

MIXING:

FX-505 Part A and Part B are mixed in a 10:1 ratio by weight. Stir the base Part A well before use. Shake the catalyst container Part B well before use. 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 to 5 minutes. This will eliminate the smaller bubbles. When packing the material into a mold care should be taken to minimize trapping air bubbles.

HIGH TEMPERATURE CHARACTERISTICS:

The FX-505 A/B can be used for continuous operations where temperatures reach up to 500°F. This can include oven curing and/or other operations that would heat soak this compound.

For metal casting applications the FX-505 A/B was tested with molten metal temperatures of 650°F. A 32% Antimony/65% Lead composition was poured into an open mold cavity six times for each test temperature. Talcum powder was used as a mold release agent and the metal was cast on a continuous basis.

INHIBITION:

Certain materials will cause inhibition or neutralization of the curing agent. These materials are sulfur containing and organometallic salt containing compounds such as organic rubbers and many RTV silicone rubbers. Inhibition may easily be determined by brushing a small quantity of FX-505 is gummy or uncured after the curing time, then you know the mold surface is acting as an inhibitor. Molds made from wood, plaster, metal or plastic should not cause inhibition if they are clean, however, to insure against possible problems it is advisable to spray a PVC barrier film release over any questionable surfaces. This is the best way of treating clays and waxes that cause inhibition.

STORAGE AND SHELF LIFE:

Factor II, Inc. FX-505 has a shelf life of 6 months from the date of shipment when stored unopened in the original containers at room temperature, 25C (77F). NOTE: REFRIGERATION IS NOT ESSENTIAL BUT MAY EXTEND THE SHELF LIFE OF THIS MATERIAL.



Factor II, Incorporated

Inventing and Innovating...
(Information: 1.928.537.8387)
ONLINE ORDERING www.factor2.com

PATENT WARNING:

Factor II Technology disclaims any expressed or implied warranty against the infringement of any patent. Factor II does not warrant that the use or sale of the products described herein will not infringe the claims of any U.S. patents or other country's patents covering the product itself or the use in combination with other products or in the operation of any process.

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. 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.

IT IS RECOMMENDED THAT THE PURCHASER THOROUGHLY TEST ANY APPLICATION PRIOR TO FULL SCALE PRODUCTION OR COMMERCIALIZATION. INFORMATION CONTAINED IN THIS TECHNICAL PROFILE SHOULD NOT BE TAKEN AS INDUCEMENT TO FRINGE ANY PATENT. FACTOR II WARRANTS ONLY THAT ITS PRODUCTS MEET ITS SPECIFICATIONS. THERE IS NO WARRANTY OF MERCHANTABILITY OF FITNESS FOR USE OR ANY OTHER WARRANTIES EXPRESS OR IMPLIED. FACTOR II MAKES NO GUARANTEE OF SATISFACTORY RESULTS

DISCLAIMER / STATEMENT OF LIABILITY:

This is to certify that the above designated material has been tested and did comply with the listed specifications (with listed exceptions) when supplied in original container. The material is subject to the conditions listed on the invoice. The above is a copy of information on file. The lot acceptance data are available for examination. This is a computer-generated document that is valid without a signature. The information above is supplied in good faith and, to the best of our knowledge, is based on available sources believed to be reliable and accurate. This document and any information provided herein are for your guidance only. The use by the requestor is beyond Factor II control; therefore, the responsibility for appropriate and safe use of the above information lies with the End user. Factor II shall not be responsible for any misuse and/or misapplication of the information in this document. Factor II will guarantee this product 6-months from the ship date, some restrictions apply.