

Dragon Skin™ FX-Pro

Platinum Cure Silicone Rubber For Special Effects



Cured Material
Certified Skin Safe! www.smooth-on.com

PRODUCT OVERVIEW

Dragon Skin™ FX-Pro is a soft, stable, high performance platinum silicone rubber specifically designed for creating silicone makeup appliances and skin effects. Dragon Skin™ FX-Pro is compatible with Skin-Tite™ silicone adhesive as well as medical grade pressure sensitive adhesives for adhering silicone appliances temporarily to the skin. Cured material is skin safe and certified by an independent laboratory to ISO 10993-10, Biological evaluation of medical devices, Part 10: Tests for irritation and skin sensitization.

Soft and stretchy FX-Pro has a Shore hardness of 2A. FX-Pro can be combined with SLACKER™ deadening agent to create a very soft silicone gel for filling encapsulated silicone pieces. An infinite number of color effects can be achieved by adding Silc-Pig™ silicone pigments. Cured rubber can also be painted with the Psycho Paint™ system.

What Makes Dragon Skin™ FX-Pro Unique?

- **Soft** - Shore 2A hardness allows for softer appliances using less SLACKER™ deadening agent
- **Low Viscosity** - combined with long working time reduces bubbles and makes pouring easier
- **Cures Dry** - will not leach silicone fluid
- **Long Working Time** - 10-12 minute working time is good for larger pours or injections
- **Fast Cure** - 40 minute cure time allows for quick turnaround of castings or molds
- **More Workable - Do More** - has a 'gel' stage - slushing the material into prosthetic molds is easier

Dragon Skin™ FX Pro is mixed 1A:1B by weight or volume. Liquid rubber can be thinned with Silicone Thinner™ or thickened with Thi-Vex™. Rubber cures at room temperature (73°F / 23°C) with negligible shrinkage.

TECHNICAL OVERVIEW

Mix Ratio: 1A : 1B by weight or volume	
Mixed Viscosity, cps: 18,000	(ASTM D-2393)
Specific Gravity, g/cc: 1.062	(ASTM D-1475)
Specific Volume, cu. in./lb.: 25.0	(ASTM D-1475)
Pot Life: 12 minutes (73° F / 23°C)	(ASTM D-2471)
Cure time: 40 minutes (73° F / 23°C)	
Color: Translucent	
Shore A Hardness: 2	(ASTM D-2240)
Tensile Strength, psi: 288	(ASTM D-412)
100% Modulus, psi: 37.8	(ASTM D-412)
Elongation @ Break: 763%	(ASTM D-412)
Die B Tear Strength, pli: 61	(ASTM D-624)
Shrinkage, in./in.: <.001	(ASTM D-2566)

* All values measured after 7 days at 73°F / 23°C

PROCESSING RECOMMENDATIONS

PREPARATION...

Preparation - Materials should be stored in and used at room temperature (73°F / 23°C). These products have a limited shelf life and should be used as soon as possible. Mixing containers should have straight sides and a flat bottom. Mixing sticks should be flat and stiff with defined edges for scraping the sides and bottom of your mixing container. Rubber may be inhibited by sulfur based clays resulting in tackiness at the surface interface or a total lack of cure throughout the mold.

If compatibility between the rubber and the surface is a concern, a small-scale test is recommended. Apply a small amount of rubber onto a non-critical area. Inhibition has occurred if the rubber is gummy or uncured after the recommended cure time has passed.

USING FX-PRO FOR MAKING SILICONE PROSTHETIC MAKEUP APPLIANCES...

Dragon Skin™ FX-Pro can be used on its own or combined with SLACKER™ deadening agent for creating silicone prosthetic appliances. As Dragon Skin™ FX-Pro is a very soft material, **relatively small amounts of SLACKER™ deadening agent** (50%-100%) can produce very soft silicone gels. Dragon Skin™ FX-Pro can be stippled onto a mold surface (eg. Shell Shock™ released with Ease Release™ 200) to create a membrane.

Layers of Dragon Skin™ FX-Pro softened with SLACKER™ can then be **poured or injected** into the mold to create a soft gel prosthetic encapsulated with strong, non-tacky Dragon Skin™ FX-Pro.

For more information on using Dragon Skin FX-Pro™ with SLACKER™ visit www.smoothon.com/specialeffects

Safety First!

The Material Safety Data Sheet (MSDS) for this or any Smooth-On product should be read prior to use and is available upon request from Smooth-On. All Smooth-On products are safe to use if directions are read and followed carefully.

Keep Out of Reach of Children

BE CAREFUL - Avoid contact with eyes. Silicone polymers are generally non-irritating to the eyes however a slight transient irritation is possible. Flush eyes with water for 15 minutes and seek medical attention. Remove from skin with waterless hand cleaner followed by soap and water. Children should not use this product without adult supervision.

IMPORTANT - The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.

Applying A Release Agent - Although not usually necessary, a release agent will make demolding easier when casting into most surfaces. Ease Release™ 200 is a proven release agent for releasing silicone from silicone or other surfaces (**DO NOT** apply Ease Release 200 to the skin). Mann Ease Release™ products are available from Smooth-On or your Smooth-On distributor. **Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question.**

MEASURING, MIXING, POURING & CURING...

Measuring & Mixing - Stir Part A and Part B thoroughly before dispensing. After dispensing required amounts of Parts A and B into mixing container (1A:1B by volume or weight), **mix thoroughly** making sure that you **scrape the sides and bottom of the mixing container several times.**

Pouring - For best results, pour your mixture in a single spot at the lowest point of the containment field. Let the rubber seek its own level. **A uniform flow will help minimize entrapped air.** If using as a mold material, the liquid rubber should level off at least 1/2" (1.3 cm) over the highest point of the model surface.

Curing - Allow rubber to cure for 45 minutes at room temperature (73°F / 23°C) before demolding. Time to demold can be reduced with mild heat or by adding an appropriate amount of **Plat-Cat™** cure accelerator (See **Plat-Cat™** technical bulletin available at www.smooth-on.com for details). The pot life and cure times can be extended using **Slo-Jo™** cure retarder (see **Slo-Jo™** technical bulletin available at www.smooth-on.com for details). Do not cure rubber where temperature is less than 65°F / 18°C.

Thickening Dragon Skin™ FX-Pro For Brush-on Application THI-VEX™ is made especially for thickening Smooth-On's Silicones for vertical surface application. Different viscosities can be attained by varying the amount of THI-VEX™. Apply a coat of rubber. Wait for rubber to become "tacky" before applying next coat. See the **THI-VEX™ technical bulletin** (available at www.smooth-on.com) for full details.

Silicone Thinner™ is a non-reactive silicone fluid that will lower the mixed viscosity of Smooth-On's silicone rubbers. **Silicone Thinner offers the following advantages:** [1] A lower mixed viscosity (A+B) means that the rubber will de-air faster when vacuuming; [2] Mixed rubber (A+B) will flow better over intricate detail; [3] Silicone Thinner will lower the ultimate shore hardness (durometer) of cured silicone rubber; [4] Pot life (working time) is increased in proportion to the amount of Silicone thinner used. **A disadvantage** is that ultimate tear and tensile are reduced in proportion to the amount of Silicone thinner added. **It is not recommended to exceed 10% by weight of total system (A+B).** See the **Silicone Thinner technical bulletin** (available at our website; www.smooth-on.com) for full details.

LOOKING FOR A MOLDMAKING MATERIAL?

Take advantage of our full line of high performance Dragon Skin™ silicones. Dragon Skin™ platinum silicone rubbers are available in Shore Hardnesses from Shore A10 through Shore A30.

For more information on Dragon Skin™ visit www.smooth-on.com/dragonskin.



Call Us Anytime With Questions About Your Application.

Toll-free: (800) 381-1733 Fax: (610) 252-6200

The new www.smooth-on.com is loaded with information about mold making, casting and more.