



TECHNICAL DATA SHEET

Product: [SharkThane Flex Pro 30-20]

Product No: [300401302008 - 2 Quart kit
300401302010 - 2 Gallon kit
300401302013 - 10 Gallon kit
300401302015 - 55 Gallon kit]

Trade Name: [SharkThane Flex Pro 30-20]

Supplier: Fiberlay Inc.
1468 Northgate Blvd
Sarasota, FL 34234
(206) 782-0660

DESCRIPTION:

SharkThane Flex Pro 30-20 is a soft, flexible urethane. The one-to-one mix ratio by volume and room temperature cure make this an easy to use system. Its natural clear, light amber color can be pigmented with SharkThane Pigments.

APPLICATION:

This SharkThane Flex Pro 30-20 is good for any application where deep undercuts or a soft stretchy rubber is needed, such as point of purchase displays, rapid prototypes, special effects, taxidermy and sculptures.

PROPERTIES

Shore	Pot life	Cure Time	Mixed Viscosity	Mix Ratio	Color	Specific Gravity	Reversion Temp	Elonga- tion%	Tensile Strength	Tear Strength
30 A	20 min	24 hours	1,300	1:1 Wt/Vol	Light Amber	1.053	270F	500	516	107

PREPARATION:

Materials should be stored and used in a warm environment (73° F / 23° C). Make sure working surfaces and working tools are warmed also. These products have a limited shelf life and should be used as soon as possible. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. Because no two applications are quite the same, a small test application to determine suitability for your project is recommended.

A release agent is necessary to facilitate demolding when casting into or over most surfaces. Use a paste, spray or brush on release agent made specifically for mold making. A liberal coat of release agent should be applied onto all surfaces that will contact the plastic. After 30 minutes apply a second layer and allow it to dry for 30 minutes also. Silicone rubber molds usually do not require a release agent when casting polyurethanes, however, applying a release agent will prolong the life of the mold. Tin (condensation) cure silicone molds are NOT recommended for rubber of Shore A 60 or lower.

IMPORTANT: Shelf life of product is reduced after opening. Remaining product should be used as soon as possible. Immediately replacing the lids on both containers after dispensing product will help prolong the shelf life of the unused product. XTEND-IT® or PolyPurge® Dry Gas Blanket will significantly prolong the shelf life

of unused liquid urethane products.

MIXING & MEASURING:

Liquid urethanes are moisture sensitive and will absorb atmospheric moisture. Mixing tools and containers should be dry, clean, warm and made of metal, glass or plastic. Spray work surfaces with release agent to avoid sticking and to ease clean up.

If required, stir or shake Part A & Part B thoroughly before dispensing. Carefully weigh or measure equal amounts of Parts A and B, pour into mixing container and mix thoroughly scraping sides and bottom of mixing container often. Pour this mix into a second mixing container and stir. Take caution to avoid introducing air into the mix. If using a drill mixer, submerge the mixer before turning it on. If using a spatula, stir deliberately without whipping in air. If adding a filler, pigment or tint, do so after mixing parts A and B. Do not measure more SharkThane than you can pour within its 5 minute pot life. If you have a large mold, you may pour SharkThane in more than one batch.

POURING:

Pour your mixture in a single spot at the lowest point of the containment field and let the mixture seek its level. This will help minimize air entrapment. Pour slowly so that any air bubbles that may have formed during mixing can break over the lip of the container as it pours out

SharkThane Flex Pro 30-20 does not require pressure casting or vacuum degassing. If pressure casting is desired, after pouring the mixed compound, the entire casting assembly (mold, dam structure, etc.) is placed in a pressure chamber and subjected to 60 PSI (4.2 kg/cm²) air pressure for the full cure time of the material.

CURING:

Leave SharkThane in the mold until thoroughly cured to avoid deformation. Pre-warmed molds will hasten curing as will a post cure at 140F for 16 hours. Conversely, cooler temperatures will slow curing. Fumes, which may be visible as this product starts to “gel” and cure, will dissipate with adequate ventilation. Do not inhale/breathe fumes.

PERFORMANCE:

Cured castings are durable, resist moisture, moderate heat, solvents and dilute acids. This product is intended for indoor use only. Direct sunlight will cause the rubber to yellow and chalk.

SAFETY INFORMATION:

The material safety data sheet (MSDS) for this or any SharkThane product should be read before using and is available on line or upon request. All SharkThane products are safe to use if directions are read and followed carefully.

WARNING: IRRITANT TO EYES, SKIN & MUCOUS MEMBRANES. May contain Methylene Diphenyl Isocyanate. Do not get in eyes, mucous membranes or on skin. Do not take internally. Do not breathe fumes. Use only with adequate ventilation. Wear chemical-resistant gloves and eye protection when using these products.

FIRST AID: In case of eye contact, flush thoroughly with water for 15 minutes and get immediate medical attention. In case of skin contact, wash thoroughly with soap and water. If irritation persists, get medical attention. If swallowed, do not induce vomiting. Drink 1-2 glasses of water and get immediate medical attention. If vapors are inhaled or if breathing becomes difficult, remove person to fresh air. If symptoms persist, get medical attention. **CAUTION: HOT!** When combined, parts A & B may generate heat in excess of 212°F (100°C) which could cause burns to the skin. Let cured plastic cool before handling.

Keep Out of Reach Of Children.]

All data, statement, and recommendations made herein are based upon information we to be believe to be reliable, but are made without any representation or guaranty or warranty of accuracy and are made with reservation of all patent right. Also statement regarding the use of our products or processes are not to be construed as recommendations for their use in violation of any patents rights or in violation of any application laws or regulations.
