

SPRUCE SPARS – CAPSTRIP – STRINGERS

GENERAL ORDERING INFORMATION

Aircraft spruce spars are available either S2S (surfaced 2 sides, top & bottom, with rough edges in 4" & 6" nominal width) or S4S (surfaced all 4 sides to thickness & width). Prices in table below are for S4S spars. If S2S is desired so builder can trim to exact width, specify S2S and use 4" or 6" width prices from table. Request quote on spar widths wider than 6". Spars for certificated aircraft such as Aeronca, Stearman, Taylorcraft and Piper are available and may be priced from the table. Since many of these early aircraft were "handmade", the spars are often not uniform in size for a particular model. Therefore, the finished net dimensions should be specified when ordering replacement spars. Please price to nearest fraction.

WP

Thousands of feet of S2S aircraft quality spruce are stocked in our Corona, CA. and Peachtree City, GA. warehouses. Orders for spars, spruce kits and capstrip can usually be shipped within three weeks after receipt of order. Spars wider than 6" must be milled from 8" specially selected stock which requires a long and indefinite lead time. Prices on request.

When ordering either spars or capstrip, designate the thickness first, then the width and length.
Examples: 3/4" T x 4-1/4" W x 14' L spar; 1/4" T x 1/2" W x 5' L capstrip.

SPRUCE KITS

See our website for complete Spruce Kits and Spar Kits for many popular homebuilt designs

BARGAIN BAG OF SPRUCE

Assortment of at least ten pieces, in random lengths from 1 ft. to 5 ft., of rough, S2S or S4S remnants and cutoffs. A usable selection is assured. Approx. wt. 20 lbs. P/N 02-03600



METRIC SIZES - Spruce can be cut to metric sizes upon request only as special order, non cancelable and non refundable.

Using our current part numbers please select one size greater than desired and at check out in "Special Instructions" advise exact metric dimensions needed.

SPRUCE SPAR STOCK—MIL SPEC. MIL-S-6073 PRICE PER LINEAL FOOT*

THICKNESS (Inches)	WIDTH (Inches)													
	2-3/4	3	3-1/4	3-1/2	3-3/4	4	4-1/4	4-1/2	4-3/4	5	5-1/4	5-1/2	5-3/4	6
1/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-1/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-1/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-5/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* Please order by part number and also state exact thickness, width and length to verify part number. Spruce part numbers begin with "02" and finish with thickness and width. Examples: 3/4" T x 5-1/4" W is P/N 02-34514; 1-1/4" T x 6" W is P/N 02-1146. Provide part number and footage required of each size. Specify any particular lengths required. Thicker & wider sizes subject to availability. Request quotation.

FOR SPARS 6-1/4" TO 9" WIDE, SEE OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.COM

FINISHED CAPSTRIP, LONGERONS, STRINGERS PRICE PER LINEAL FOOT*

THICKNESS (Inches)	WIDTH (Inches)															
	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2
1/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7/8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Please order by part number and also state exact thickness and width. Begin part number with "02", then thickness & width.
Example: 1/4" T x 3/8" W is P/N 02-1438. Capstrip is furnished in lengths as specified by customer.

PLYWOOD



DOMESTIC MIL-P-6070 AIRCRAFT PLYWOOD

American-made structural aircraft-grade plywood is made of imported African Mahogany or American Birch veneers laminated in a hot press to hardwood cores of Poplar or Bass wood with waterproof glue. Will meet all requirements of specification MIL-P-6070, which calls for shear testing after immersion in boiling water for 3 hours. Far superior to many plywoods in which all plies are 1/16" thick and laminated in a cold press to make up the total thickness. Tests should be made on cold-press plywoods before use in aerobatic aircraft.

Thickness			No. of Plies	90° Mahogany		90° Birch		
In.	Approx. MM.	Approx. Wt. 4' x 8' Sheet		Part No.**	4' x 8' Sheet	Approx. Wt. 4' x 8' Sheet	Part No.**	4' x 8' Sheet
1/16 (.070)	1.5	3	6 Lbs.	02-189--	---	7 Lbs.	02-243--	---
3/32 (.100)	2.5	3	10 Lbs.	02-191--	---	12 Lbs.	02-244--	---
1/8 (.125)	3.2	3	12 Lbs.	02-193--	---	15 Lbs.	02-245--	---
3/16 (.190)	4.8	3-5	20 Lbs.	02-195--	---	24 Lbs.	02-246--	---
1/4 (.250)	6.4	5	25 Lbs.	02-197--	---	30 Lbs.	02-247--	---
5/16 (.312)	7.9	5	Lbs.	02-198--	---	30 Lbs.	02-251--	---
3/8 (.375)	9.5	5	Lbs.	02-199--	---	30 Lbs.	02-266--	---
7/16 (.437)	11.1	7	Lbs.	02-120--	---	30 Lbs.	02-267--	---
1/2 (.500)	12.7	7	Lbs.	02-121--	---	30 Lbs.	02-260--	---
			45° Mahogany		45° Birch			
1/16 (.070)	1.5	3	6 Lbs.	02-188--	---	7 Lbs.	02-248--	---
3/32 (.100)	2.5	3	10 Lbs.	02-190--	---	12 Lbs.	02-249--	---
1/8 (.125)	3.2	3	12 Lbs.	02-192--	---	15 Lbs.	02-250--	---
1/4 (.250)	6.4	5	---	---	---	30 Lbs.	02-271--	---

*Domestic plywood is sold only in 2'x4' (8 Sq.Ft.), 4'x4' (16 Sq.Ft.), 2'x8' (16 Sq.Ft.), and full 4' x 8' sheets. If ordering less than full sheet, compute cost based on price/sq.ft. shown in above table.

** The part numbers of full 4' x 8' sheets end with "80". For less than full sheets, the last two digits will change according to the size ordered. Change the last two digits in the part number to "10" for 4' x 4', "20" for 2' x 8' and "30" for 2' x 4'. Example: 1/16" mahogany 90° is 02-18980 (4' x 8'), 02-18910 (4' x 4'), 02-18920 (2' x 8') and 02-18930 (2' x 4').



FINNISH BIRCH AIRCRAFT PLYWOOD (METRIC)

Note: Full sheets are 4' x 4' and half sheets are 2' x 4', with the exception of 02-00236 which are furnished in 61" x 61" full sheets.

Quality Birch Aircraft grade plywood produced to AB/B grade on all thicknesses. Finnish birch plywood is furnished in 48" x 48" sheets, depending on current availability. Prices fluctuate with changes in sheet sizes. Full sheets require truck shipment unless cut in half for UPS. Color may vary. Attention: 2' x 4' Plywood are cut with grain. If cross cut required, specify at time of order.

Thickness		Plies	Half Sheet 2'x4'		Full Sheet 4'x4'	
Nom. Inch.	mm		Part No.	Price	Part No.	Price
1/64	0.4	3	02-20250	---	02-20200	---
1/32	0.8	3	02-20350	---	02-20300	---
3/64	1.0	3	02-50050	---	02-50000	---
1/16	1.5	3	02-20450	---	02-20400	---
3/32	2.5	5	02-20550	---	02-20500	---
1/8	3	6	02-20650	---	02-20600	---
5/32	4	8	02-00237	---	02-00236	---
3/16	5	10	02-20750	---	02-20700	---
1/4	6	12	02-20850	---	02-20800	---

Corby Starlet 2MM x 48" x 48" P/N 02-28050 ---
1/4 Birch/Poplar 5ply, 45° P/N 02-27180 ---



OKOUME PLYWOOD

Okoume (o-KUE-me), also referred to as Gaboon, is an African hardwood widely used in Europe over the past century. Light pinkish brown in color, sometimes lustrous with variable interlocking grain, the rotary cut panel can be painted or finished bright. The natural durability of this species is extremely low and care must be taken to finish all surfaces, face and edges. Often recommended for use with epoxy saturation systems, the panel exhibits high strength to weight ratios. Face veneers are made from 1.3 mm thick A/B grade rotary cut veneer. Cores and crossbands are solid-joined and the panel glued with waterproof glue. Okoume panels are extensively used by race class boat builders, rowing shell builders and in various applications. Where its lighter weight, good bending properties and ease of finishing are a value, 5/32" thickness is used in the One Design Kit Aircraft and applicable to a wide variety of Homebuilt Aircraft, sold in 4'x8' sheets. Wt. of 5/32" sheet is 8.8 lb. Wt. of 1/4" sheet is 28 lbs. Thickness varies from 4mm to 6mm. Can be cut down for shipping. Certified bs1088

4mm thick x 4' x 8' sheet P/N 02-20100 ---
6mm thick x 4' x 8' sheet P/N 02-00076 ---



LITE PLY PLYWOOD

The beautiful, pliable answer to shaped and curved construction problems. Lite Ply® is distinguished by its even grain, virtually snow white appearance and unusual resilience. It is a true "white wood," poplar and finishes uniformly, whether stained or painted. Supplied for over 50 years, Lite Ply® has proven to be an excellent wood for industries where weight is a concern. Lite Ply® has been proven to be a cost effective alternative to other light weight panels.

4' X 8' Sheet 1/8" 3MM P/N 02-00115 ---
4' X 8' Sheet 1/4" 6MM P/N 02-00116 ---



ROYAL MARINE A-B FIR PLYWOOD

First quality marine plywood that meets or exceeds requirements of specifications PS 1-74. All are Douglas Fir.

Thickness	No. of Plies	Part No.*	Price			
			2'x2'	2'x4'	4'x4'	4'x8'
1/4"	3	02-210--	---	---	---	---
3/8"	4	02-211--	---	---	---	---
1/2"	5	02-212--	---	---	---	---
5/8"	7	02-213--	---	---	---	---
3/4"	7	02-214--	---	---	---	---
1"	7	02-215--	---	---	---	---

\$4.00 packing charge for less than 3 sheets unless cut to 2'x4' pieces for UPS shipment.

*Please order by part number, note thickness & size for verification. The part numbers for full 4'x8' sheets end with "80". For less than full sheets, the last 2 digits of the part number. Will change according to size ordered. Change last 2 digits of the part no to "20" for 2'x2', "40" for 2'x4' & "60" for 4'x4'. Example: 1/4" 2'x4' is 02-21040.



BASSWOOD MIL-P-6070 AIRCRAFT PLYWOOD

Basswood meets MIL-P-6070 but is lighter and has more flexibility than Mahogany & Birch plywood, but has slightly less structural strength.

Thickness	No. of Plies	Part No.*	Price			
			2'x2'	2'x4'	4'x4'	4'x8'
1/16"	3	02-253--	---	---	---	---
3/32"	3	02-254--	---	---	---	---
1/8"	3	02-255--	---	---	---	---
3/16"	3	02-256--	---	---	---	---
1/4"	5	02-257--	---	---	---	---
5/16"	5	02-258--	---	---	---	---
3/8"	5	02-261--	---	---	---	---
7/16"	7	02-262--	---	---	---	---
1/2"	7	02-263--	---	---	---	---
5/8"	9	02-265--	---	---	---	---
3/4"	9	02-264--	---	---	---	---

Note: All sheets 4'x8'. All plies are basswood. Grain is 90°. Part nos for full 4'x8' sheets end with "80". For less than full sheets, the last 2 digits will change according to the size ordered. Change the last 2 digits in the part no to "60" for 4'x4', "20" for 2'x2' and "40" for 2'x4'. See example in domestic plywood table.



5/16" 5 PLY BIRCH/ BASSWOOD PLYWOOD

2X2 P/N 02-27220 ---
2X4 P/N 02-27240 ---
4X4 P/N 02-27260 ---
4X8 P/N 02-27280 ---
4X8 90° P/N 02-25880 ---

ATTENTION - 90° 2' x 4' Plywood are cut with grain. If cross cut required, specify at time of order

SPRUCE KITS – BALSAM WOOD

TRIANGULAR CORNER BLOCKING

90° Corner Blocking
Order by the foot.



Size	Part No.	Price Per Ft.	Size	Part No.	Price Per Ft.
1/4"	02-17600	---	1/2"	02-18000	---
5/16"	02-17700	---	5/8"	02-18100	---
3/8"	02-17800	---	3/4"	02-18200	---
7/16"	02-17900	---	7/8"	02-18300	---

WP

BALSAM WOOD



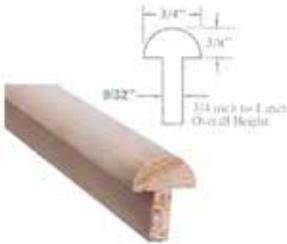
Balsa is the lightest commercial wood in the world, weighing less than 10 lbs./cu.ft. Pound for pound, it is one of the strongest - both its stiffness and bending strength exceed White Spruce, Western Yellow Pine, Douglas Fir, White Oak and many other commercially used woods. It is easily cut, turned, carved, shaped, glued, sanded and finished, all with ordinary wood working tools and techniques. It can be shaped with abrasive wheels either wet or dry. It can be cut into extremely thin veneers. Almost any kind of coating will adhere to it. Meets specifications MIL-B-2747 and MIL-S-7998.

Furnished as 2" thick boards, 3 ft. long from 3"-6" wide. Material which may be glued together by the builder to make the required size pieces. 2" x 2" x 3 ft Pc.....P/N 02-00246--/ea.

"T" STRINGER STOCK

Standard Spruce stringer material finished to the dimensions illustrated. Lengths over 8 feet require truck shipment. Lengths to 8 Ft.

P/N 02-18400.....--/ft.



Add 20% for lengths over 8 feet.

ACTUAL SIZES OF BOARDS CAN VARY

3M™ SCOTCH-WELD DP190 TRANSLUCENT EPOXY ADHESIVE 200 ML



3M™ Scotch-Weld™ Epoxy Adhesive DP190 - Translucent is a two-part epoxy adhesive that delivers exceptional performance with high shear and peel strength. This epoxy adhesive is formulated to bond to a wide range of materials, such as metals, ceramics, wood, fiberboard, glass, rubber and many plastics. With an 80-minute work-life, this epoxy adhesive allows for an extended period of time for adjustment and precise application. 3M™ Scotch-Weld™ Epoxy Adhesive DP190 reaches handling strength in approximately 10 hours and full cure in 14 days at room temperature. This epoxy adhesive has low viscosity and a 1:1 mix ratio. Additionally, we engineered 3M™ Scotch-Weld™ Epoxy Adhesive DP190 - Translucent to exhibit good environmental aging properties, delivering long-term durability. Volume: 200 ml
P/N 09-04777 ---

FIX-IT

Fix-it is a universal repair compound. It is excellent for rebuilding or fabricating parts and as an all purpose adhesive for wood, metals, ceramic, glass, and many plastics. Fix-it can be tapped or drilled, sanded, filed or painted. Patch holes and cracks and seals leaks. Sets rock hard overnight. Fix-It is non-toxic, non-hazardous, and impervious to fuels and liquids.

White 1/4 lb.....P/N 01-14770 ---
White 1 lb.....P/N 01-14775 ---
Silver 1/4 lb.....P/N 01-14790 ---
Silver 1 lb.....P/N 01-14795 ---



INSTANT GLUES



These American made Instant Glue products were used extensively in construction of the "Around the World Non-stop" Voyager aircraft and are highly recommended for many homebuilt aircraft applications by Voyager Aircraft, Inc. and Rutan Aircraft Factory. They create a fast, permanent bond on many similar and dissimilar materials such as woods, metals and composite materials.

HOT STUFF™ - Odorless THIN have a consistency resembling that of water, used mainly for bonding parts which fit very well. 2oz.
P/N 01-35500 ---

SUPER 'T'™ - A consistency similar to that of syrup and has the ability to fill small gaps between parts which don't fit perfectly. SUPER 'T'™ cures at a slower rate than HOT STUFF™, (10-25 seconds depending on the material). 2oz.P/N 01-35600 ---

SPECIAL 'T'™ - Special 'T'™ and new UFO™ Odorless THICK are very thick cyanoacrylates with a consistency resembling cold honey. SPECIAL 'T'™ and UFO™ Odorless THICK have greater gap-filling ability than SUPER 'T'™ and more positioning time after contact of parts. The rate of cure is slow enough, (usually 50-60 seconds depending on the material), to allow precise alignment of parts, after assembly. 2oz.
P/N 01-01039 ---

NCF QUICK™ - Used with HOT STUFF, UFO Odorless THIN, SUPER T, and UFO Odorless THICK., and with it you can do almost magical things. NCF Quick works in three ways to make HOT STUFF, SUPER 'T' and SPECIAL 'T' Easier, Faster, Stronger and able to bond some of the most unusual materials you can think of. 6 oz.....P/N 01-00689 ---

SUPER SOLVENT™ - Super Solvent™ is a remarkable debonder and cleaner for any instant glue. Use it for hand clean-up, removes instant glue from most clothing and surfaces. Some fabric, colorings or materials may be affected, so test-patch on an inconspicuous place. Add 2oz.
P/N 01-35800 ---

INSTANT GLUES & ADHESIVES



BSI QUIK-CURE 5 MINUTE EPOXY

QUIK-CURE™ 5 min. epoxy cures to a slightly flexible consistency. This lack of brittleness allows it to form a lasting bond in areas subjected to high vibration or stress. QUIK-CURE™ shouldn't be used in areas that are subject to long-term immersion in water; however, it works fine for the internal structure of wood framed boats. QUIK-CURE™ is our only epoxy on which you can apply polyester resins. It can be mixed with microballoons to form a quick setting putty. Items bonded with QUIK-CURE™ can be handled after 15 minutes. Full strength is reached in 1 hour.

P/N 01-01443 ---



BSI SLOW-CURE 30 MINUTE EPOXY

SLOW-CURE™ 30 min. epoxy works best for forming reinforcing fillets on joints. It has the highest strength of our epoxies. It is waterproof and more heat resistant. SLOW-CURE™ can be used for bonding if you're willing to wait overnight. Fillers such as microballoons can be mixed with SLOW-CURE™ and FINISH-CURE™ to form a putty-like consistency. Such fillers will usually decrease the working time by about 25%. Bonded objects can be handled after 8 hours and the cured epoxy reaches full strength within 24 hoursP/N 01-01444 ---



BSI INSTA-CURE SUPER THIN CYANOACRYLATE

INSTA-CURE™ has a water-thin viscosity that wicks deep into joints by capillary action and cures in a matter of a few seconds. Surfaces to be bonded must be tight fitting and should be held together while you apply the CA around the edges of the seam. At the moment CAs cure, they give off a vapor that can irritate the nose and eyes, so be prepared. Thin CAs work very well on balsa since they penetrate into the wood and form more than just a surface bond.

1 oz.....P/N 01-01460 ---
2 oz.....P/N 01-01447 ---



BSI INSTA-CURE GAP FILLING CYANOACRYLATE

INSTA-CURE+™ is a higher viscosity CA for loose fitting joints in which the adhesive must bridge gaps. Normally, the thicker CA is applied to one surface and then the parts are held tightly together for about 5 to 15 seconds. For large surface areas, including those with close fitting joints such as laminations, INSTA-CURE+™ should also be used. To prevent premature curing, don't spread the glue into a thin film. Lay down a serpentine bead with about 1" separations on one surface, then assemble the parts, letting the pressure spread the CA out.

1 oz.....P/N 01-01461 ---
2 oz.....P/N 01-01448 ---
8 oz. Refill.....P/N 01-01458 ---



BSI MAXI-CURE EXTRA THICK CYANOACRYLATE

MAXI-CURE™ extra thick CA is the best CA for most plastics, including GE's Lexan MAXI-CURE™ is the best choice for plastic model assembly. When used with INSTA-SET™, it works better than any putty for modifying or filling voids. It can be carved with a knife or razor blade and sanded and feathered to form a finish indistinguishable from plastic.

1 oz.....P/N 01-01459 ---
2 oz.....P/N 01-01449 ---



INSTA-WELD 2 THICK

Urethane Supply Company's Insta-Weld 2 thick glue works well when you need to fill a gap. Insta-Weld 2 has about the consistency of 30 weight oil. To use, apply Insta-Weld 2 and then spray with Insta-Weld Activator (sold separately) for quick curing. Insta-Weld 2 will cure without the Insta-Weld Activator (sold separately) but it will take MUCH longer. Try Insta-Weld on everything. It will either work, or not work, instantly. Does NOT work on olefin based plastics like polyethylene, polypropylene, TPO and TEO. 2 fl. oz. (59 ml) bottle.....P/N 01-01434 ---



BSI SUPER-GOLD+ GAP FILLING ODORLESS FOAM SAFE

SUPER-GOLD+™ are odorless INSTA-CURE CAs. They are non-frosting and take only 2 or 3 seconds longer to bond. There are no fumes that irritate the nose and eyes. Do not attack white foam; therefore, they can be used in the building of foam core wings and the assembly and repair of plastic and foam ARF's. They will not fog clear plastic. Ideal for attaching clear canopies in plastic model kits; however, MAXI-CURE™ is still recommended for assembling the rest of plastic kits. Wood can be bonded to white foam with SUPER-GOLD +™ in less than fifteen seconds.

P/N 01-01450 ---



BSI INSTA-CURE+ POCKET CYANOACRYLATES GAP FILLING

BSI has added a 4 oz. size to go along with the 3/4 oz. cyanoacrylates. These Pocket CAs feature a new top that has a pin built into the cap that covers the nozzle. This pin seals the bottle so that if it is tipped over, the bottle will not leak. Has a the blunt nozzle which makes it more difficult to apply small amounts of the CA, especially in tight places. Over 70% prefer our standard top for general bonding purposes.....P/N 01-01451 ---



BSI INSTA-SET CYANOACRYLATES ACCELERATOR

INSTA-SET™ is a catalyst which acts as an accelerator that allows CAs to quickly cure in thick layers by enhancing the alkaline conditions during polymerization. INSTA-SET™ in a spray bottle is normally used to cure the CA that flows from joints when parts are pressed together. Applying an additional bead of thick CA along a seam and then curing it with INSTA-SET™ significantly enhances a joint's strength. For difficult to bond materials, INSTA-SET™ can be applied to one surface and CA to the opposite surface. When brought together, they will bond instantly. INSTA-SET™ is formulated with a strawberry scent and activates CA in 6 to 8 seconds without any degrading of the CAs strength, which can occur with many other accelerators. It is compatible with all surfaces, even clear plastic and white foam.



Description	Part No.	Price
Pump Spray - 2 Fl. oz.	01-01453	---
Refill - 8 Fl. oz.	01-01454	---
Aerosol - 6.75 Fl. oz.	01-01455	---

BSI UN-CURE CYANOACRYLATE DEBONDER

QUIK-CURE™ 5 min. epoxy cures to a slightly flexible consistency. This lack of brittleness allows it to form a lasting bond in areas subjected to high vibration or stress. QUIK-CURE™ shouldn't be used in areas that are subject to long-term immersion in water; however, it works fine for the internal structure of wood framed boats. QUIK-CURE™ is our only debonder on which you can apply polyester resins. It can be mixed with microballoons to form a quick setting putty. Items bonded with QUIK-CURE™ can be handled after 15 minutes. Full strength is reached in 1 hour.

P/N 01-01456 ---



BSI IC-LOC BLUE MEDIUM STRENGTH THREAD LOCKER

C-Loc™ Blue is a medium thickness, medium strength threadlock that is applied to the threads of fasteners before assembly. Once the IC-Loc Blue™ is cured, the fasteners can be disassembled with standard hand tools if required.

P/N 01-01457 ---



ADHESIVES - GLUES

WP



CASCOPHEN

A Resorcinol Formaldehyde Adhesive capable of curing at room temperature and providing strong, durable, waterproof bonds. Comes in two parts, a liquid resin (part A) and a powdered catalyst (part B). The liquid resin is an alcohol-water solution of a partially condensed resorcinol-formaldehyde resin containing a suitable reinforcing cellulosic filler. The hardener is a tan powder formulated from paraformaldehyde and a suitable cellulosic filler. Produces a cured glue line which is resistant to fresh water or salt water, most acids and organic solvents, and lubricating oils and greases. Being thermoset, the bond is resistant to elevated temps. and conversely, no loss in bond strength occurs at temperatures as low as -40°F. Surfaces include treated woods, many plastics, natural and synthetic rubber, primed metal, leather, textiles, paper and fiber boards.

Pint Kit (Pint A, 1/4lb B) P/N 02-00036 ---
 Quart Kit (Qt A, 1/2lb B) P/N 02-00037 ---
 Gallon Kit (Gal A, 2lbs B) P/N 02-00038 ---



FPL-16A HUGHES GLUE

This is an exceptionally fine two-part white epoxy glue for homebuilt and experimental aircraft. Not only for wood but for many other applications such as a metal to wood adhesive, metal to metal, just about anything with the exception of some plastics. It has been used by builders for many years with universal acceptance. Its low viscosity makes it very easy to work. Shelf life: Resin - more than 1 yr. Hardener - Indefinite.

Qt. Kit (1 qt. resin, 4oz hardener, Wt 4 lbs)
 P/N 02-23400 ---



HYSOL EA-9430 GLUE

Replaces the EA-9410-2 glue. EA-9430 has the same characteristics as the EA-9410, but has a 50 minute pot life instead of the 30 minute pot life of the EA-9410 at 77°F. Used extensively in the Strojnik S2A sailplane and many other homebuilts.

P/N 02-18600 ---



WEST SYSTEM SIX10 THICKENED EPOXY ADHESIVE

Six10 Adhesive gives you the strength and reliability of a two-part WEST SYSTEM epoxy with the convenience of a single part product. Six10 is dispensed with a standard caulking gun. Non-sagging Six10 bonds tenaciously to wood, metals, fiberglass and concrete. It cures in temperatures as low as 50°F. Working time is 42 minutes at 72°F. Cures to a solid in 5-6 hours and will take high loads in 24 hours. Cure time is faster at warm temperatures and slower in cool temperatures. Dispense mixed 2 part epoxy adhesive using a standard caulking gun. The efficient internal geometry of the 600 Mixer thoroughly blends resin and hardener in a short mixing length for good application control and a minimum of waste. Additional 600 Static-Mixers are available in packages of two or twelve.

Part No.	Description	Unit Size	Price
01-01069	Epoxy Adhesive Cartridge	190 ml	---
01-01071	Static Mixers	2 ea	---



FASTWELD 10 A/B HIGH SETTING EPOXY

Fastweld 10 A/B epoxy adhesive is a rapid-setting, two-component paste offering a convenient one-to-one mixing ratio by volume or weight. Fastweld 10 A/B epoxy adhesive produces strong bonds in a very short period. It is especially suited for bonding small parts and for repair work. Pot life: 3-4 minutes at 77° F, Cure Time: 4 hours.

Shelf life: 3 years P/N 09-03454 ---
 3M™ EPX Pneumatic Mix Nozzle 9742 P/N 09-01372 ---



GORILLA GLUE TOUGHEST GLUE ON EARTH

Gorilla Glue is known as the toughest glue on planet Earth. A high strength adhesive that quickly bonds wood, metals, stones, ceramics, and more. Gorilla Glue is a versatile, interior/exterior adhesive ideal for building projects. 8 oz. bottle.

Benefits: • 100% Waterproof • Incredibly Strong and Versatile • Stainable and Paintable • Easily Sanded • More Coverage • A Long Open Working Time • Dries Light Tan • Non-toxic • Acid-Free

8oz. P/N 02-00101 ---
 Single use (4 tubes) P/N 02-00225 ---



T-88 STRUCTURAL ADHESIVE

T-88 is a non-brittle structural adhesive which gives superior finished results even when used under adverse working conditions. T-88 will cure in temperatures as low as 35°F which makes it an excellent choice for homebuilders living in colder climates. It is recommended by the builders of many types of homebuilt aircraft and is excellent for bonding aluminum, steel or wood. When fully cured, it is not affected by water, oil, gasoline and most other chemicals.

1/2 Pt Kit.. P/N 02-00046 --- Pt. Kit..... P/N 02-00047 ---
 Qt. Kit P/N 02-00048 --- Gal. Kit.... P/N 02-00049 ---



T-88 UNIVERSAL CARTRIDGES

With the Universal Cartridge any medium to high quality caulking gun will work just fine. When you evaluate the Universal Cartridge notice that without a mixture tip it is perfect for accurately measuring small batches of adhesive. This is something that is very hard to do in a mixing cup without generating a lot of waste. Of course when the cartridge is used with the mixing tip you get both accurate measuring and thorough mixing making large, continuous gluing jobs much easier with flawless products performance. **Note:** Cartridge includes one mixing tube. Extra mixing tubes and caps are sold separately.

P/N 02-00103 ---



REDI-MIX MIXER TUBE

The static mixer tube attaches to the cartridge with a retaining nut which screws on securely to the REDIMIX gun. The mixer tip tapers to 1/8" but may be cut back to about 1/4". Very small quantities of epoxy may be prepared in this manner without any waste or added cost.. P/N 02-90030 ---

SCOTCH WELD 3M™ STRUCTURAL ADHESIVE

Commonly known as "Scotch Weld", this two part epoxy structural adhesive will bond wood, metal, plastics and rubber. It has a pot life of nearly 2 hours after mixing, and a 24 month shelf life. Forms flexible yet very strong bonds. Color: Gray. 2 oz. kit P/N 02-00045 ---



QUIK FIX EPOXY PUTTY STICKS

Quikfix BC 101 is a hand mixable, fast curing, general purpose epoxy putty stick that mixes in just one minute to provide fast repairs to many surfaces including metals, wood, glass, concrete, ceramics and numerous plastics. One hour after mixing, QuikFix BC 101 can be drilled, sawed, sanded, filed, tapped, machined, or painted. Color: Gray (after cure).

3.5" stick P/N 01-00333 ---
 7" stick P/N 01-00332 ---



BOND-AIDE WOOD EPOXY PUTTY

Bond-Aide P-1500W is a wood epoxy putty compound that cures in minutes to form permanent repairs on woods, plaster, ceramics and many plastics with no shrinkage. Excellent for bonding wood to wood, wood to metal, and wood to glass or ceramics. P-1500W has a multitude of uses in aircraft restoration, rebuilding, and repair.

1 tube 2-part Bond-Aide P-1500W P/N 02-18650 ---/ea



G/FLEX EPOXY ADHESIVE

A toughened, versatile, liquid epoxy for permanent waterproof bonding of fiberglass, ceramics, metals, plastics, damp and difficult-to-bond woods. Modulus of elasticity of 150,000 PSI. Can absorb the stress of expansion, contraction, shock and vibration. Can be modified with West System fillers and additives, and used to wet-out fiberglass tapes and fabrics. Mixed at a 1:1 ratio, G/flex gives you 45 minutes of working time at room temperature. It reaches an initial cure in 7 to 10 hrs and full cure in 24 hrs.

Epoxy Adhesive P/N 01-01162 ---

650-K Epoxy Kit - Contains 4 fl. oz. G/flex 650 resin, 4 fl. oz. G/flex 650 hardener (8 fl. oz. mixed epoxy), 2 reusable mixing stick/applicators, 2 12-cc syringes, 4 grams Adhesive Filler, 4 mixing cups, 1 pair disposable neoprene gloves, 4 alcohol cleaning pads and complete handling and repair instructions. P/N 01-01161 ---

655-K Epoxy Repair Kit - Contains 4.5 fl. oz. G/flex 655 resin, 4.5 fl. oz. G/flex 655 hardener (9 fl. oz. of mixed epoxy), 2 reusable mixing stick/applicators, 4 alcohol cleaning pads, 1 pair disposable neoprene gloves, 10 mixing palettes and complete handling and repair instructions. P/N 01-01163 ---

3M™ SCOTCH-WELD™ EPOXY ADHESIVE DP420 50ML DUO-PAK



3M™ Scotch-Weld™ Epoxy Adhesive DP420 is a toughened, two-part epoxy structural adhesive that provides good strength along with high impact and fatigue resistance to meet demanding bonding challenges. 3M™ Scotch-Weld Epoxy Adhesive DP420 can replace mechanical fasteners, screws, rivets and spot welds in many applications P/N 09-06060 ---

ADHESIVES

WP



PTM&W ES6279 AEROPOXY EPOXY ADHESIVE

Manufactured by PTM & W Industries, Inc. ES6279 is a light grayish-tan two part adhesive that was developed specifically for difficult bonding problems involving similar or dissimilar materials. ES6279 provides excellent adhesion to a wide variety of materials such as aluminum, steel, brass, glass, ceramics, and wood. The mix ratio of 1 to 1 by weight or volume allows easy measuring, and the creamy, smooth viscosity allows easy, uniform application. The cured material has excellent strength as well as good resistance to weak acids, moisture, and weather. ES6279 has been used successfully for many years in a variety of general bonding uses as well as numerous production applications.

Part No.	Description	Wt. (lbs.)	Price
02-30015	1/2 quart part A only	3.0	---
02-30020	1/2 quart part B only	3.0	---
02-30025	ES6279 QUART KIT	6.0	---
02-30030	1/2 gallon part A only	12.0	---
02-30035	1/2 gallon part B only	12.0	---
02-30040	ES6279 GALLON KIT	24.0	---
02-30045	1/2 pail part A only	60.0	---
02-30050	1/2 pail part B only	60.0	---
02-30055	ES6279 PAIL KIT	120.0	---



PTM&W ES6209 AEROPOXY STRUCTURAL ADHESIVE

ES6209 is a translucent, straw colored two component epoxy adhesive with a thick, liquid consistency. ES6209 is an excellent structural adhesive for use when good flow and surface wetting are required. Though pourable it has a controlled flow viscosity to minimize run-out from the adhesive joint. The 1 to 1 combining ratio by weight or volume makes it easy to measure and mix. The working time of over an hour provides plenty of time to coat and assemble the materials to be bonded. ES6209 has excellent adhesion to composite and metal parts typically used in kitplane construction. It bonds rigid foam, wood, ceramics, fiberglass and most metals with ease. Quart Kit P/N 01-00295 ---



ES6247 HIGH PEEL STRENGTH EPOXY ADHESIVE KITS

ES6247 is a two component toughened epoxy adhesive with very good cured properties that provides excellent bonds to a variety of substrates. Its blend of high lap shear and T-Peel values allow superior performance in demanding bonding applications. ES6247 adheres very well to wood, metal, composites and some plastics. The bonded components exhibit tough and durable performance for long term stability in use. Qt. Kit P/N 01-01595 --- Gal. Kit P/N 01-01596 ---



DOW CORNING #739 PLASTIC BONDING SILICONE ADHESIVE

Dow DOWSIL™ 739 Plastic Adhesive Black is a one-component, room temperature curing, silicone adhesive that is used for sealing, wedge bonding, repairs, and general-purpose applications. It offers high elongation, no flow, fast in-line processing, flame resistant, and requires no mixing P/N 09-05663 ---



METAL SET A4 ALUMINUM FILLED EPOXY ADHESIVE

Metalset A4® is a powerful epoxy adhesive that has been used for years by all branches of the U.S. Military as well as every major airline and auto manufacturer in the world. A4 is used for hundreds of industrial bonding applications and offers excellent adhesion to porous or non-porous surfaces. It can be applied to vertical surfaces without sagging and cures overnight with negligible shrinking. Once cured, A4 offers good machining qualities (sanding, drilling, tapping), and resists alkalis, dilute acids and solvents. Applications include stopping leaks in pipes, valves and tanks (i.e. car gas tanks), bonding like and unlike surfaces, filling metal joints, dents, etc., anchoring bolts in wood, concrete, and repairing metal surfaces. 6 oz tube - 16 hour cure time P/N 02-00220 --- 11 oz tube P/N 02-00233 ---



PTM&W ES6228 METAL BONDING ADHESIVE

ES6228 is a thin paste viscosity epoxy adhesive designed to provide good bonds to metal surfaces. A unique feature of ES6228 is its ability to bond to slightly oily metal surfaces. This is useful in situations where the complete removal of residual mill oil on metal surfaces is not possible. The thin paste consistency of ES6228 wets the metal surface well, for good adhesion. This viscosity also provides some gap filling capabilities, so "close-fitting" joints are adequate, and matched-metal joints are not required. ES6228 has a 1:1 mix ratio, by weight or volume, for easy measuring. The white resin and black hardener combine to a smooth gray system that is easy to mix and apply. The cured material has very good properties, with high bond strength and elongation, for tough durable assemblies.

Quart Kit (4.5 lbs) P/N 01-00415 --- Gallon Kit (18 lbs) P/N 01-00414 ---

Product Specifications	ES6228-A Resin	ES6228-B Hardener	Test Method
Color	White	Black	Visual
Viscosity,cps	Thin Paste	Thin Paste	ASTM D2393
Specific Gravity	1.32	1.30	ASTM D1475
Density Lb./cu.in.	.0477	.0470	ASTM D792
Mix ratio	100:100 by weight or volume		PTM & W



SYSTEM THREE ROTFIX

Rotfix is an easy-to-use, low viscosity epoxy wood restoration system for consolidation of rotted, deteriorated, dried out, or spongy wood. It creates a strong water-resistant base for repair and restoration. Penetrates deep into wood for maximum strength. Use with Sculptwood for permanent structural repair or severely damaged wood. Kit includes 16 oz. measuring/application bottle. 1.5 pint (24 oz.) Kit P/N 02-90050 ---/ea



SYSTEM THREE SCULPTWOOD 2 PINT KIT

SculptWood Putty is a two-component, solvent-free, kneadable epoxy. It is moldable, carvable, lightweight, strong, and exhibits excellent adhesion to a variety of substrates. It is easily sanded and will accept paint, screws and nails. 2 pint (32 oz.) Kit .P/N 02-90055 ---/ea



SYSTEM THREE QUICK CURE EPOXY

Quick Cure is a 5 min. epoxy from System Three which bonds wood, metals, fiberglass, ceramics, plastics and glass. Excellent for making quick repairs, as it hardens in 5 minutes at room temperature. Mixing ratio: 1 to 1. Not recommended for applications in excess of 200°F. Pint Kit P/N 02-30060 --- Quart Kit P/N 02-30065 ---



GORILLA SUPER GLUE

Its high strength and quick set time make Gorilla Super Glue the go-to for a variety of household projects. Developed for long-lasting repairs in an instant, Gorilla Super Glue is formulated with tiny rubber particles for increased impact resistance. We call it Impact-Tough® because it stands up to wear and tear unlike any other instant glue. Gorilla Super Glue Gel is an easy-to-use, thicker and more controlled formula great for multiple surfaces and vertical applications. Super Glue P/N 09-04093 --- Super Glue Gel P/N 09-04094 ---



METLWELD EPOXY ADHESIVE

MetlWeld is a 2-part, equal volume ratio, room temperature curing epoxy adhesive. MetlWeld develops strength earlier than other comparable 1:1 systems and may be used at temps. as low as 50°F. Metal to be bonded should be freshly sanded and clean from grease, wax, oil and other contaminants. Allow 48 hours min. to cure and develop strength at 77°F (longer at cooler temps.) before subjecting to stress. Bonds plain & anodized aluminum, glazed & unglazed ceramic; concrete; copper; glass; galvanized and stainless steel; neoprene rubber and most porous materials. Does not bond acrylic, polyethylene, polypropylene, polystyrene or vinyl plastics. 1/2 Pint Kit P/N 01-00406 --- Quart Kit P/N 01-00408 ---