

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.

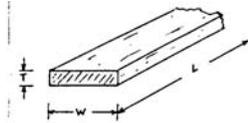
Thousands of feet of S2S aircraft quality spruce are stocked in our Corona, CA. and Peachtree City, GA. warehouses. Orders for spars, spruce kits and capstrip can usually be shipped within three weeks after receipt of order. Spars wider than 6" must be milled from 8" specially selected stock which requires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

For additional technical information refer to a complete reprint of spruce specification MIL-S-6073 and plywood specification MIL-P-6070.

P/N 13-14900..... \$5.95

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.



Faster delivery can be assured if guidelines regarding minimum acceptable lengths are provided. Orders are often delayed awaiting delivery of lumber to the even footage specified whereas shipment could be made if the minimum usable lengths were indicated. Example: 3/4" nominal 6" x 12' (131-1/2" min.).

Spruce and tubing kits may be combined with plywood and other building supplies for a single truck delivery charge.



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..... \$37.50

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	\$3.80	\$3.80	\$3.80	\$3.80	\$3.80	\$4.75	\$4.75	\$4.75	\$4.75	\$5.50	\$5.50	\$5.50	\$5.50	\$6.50	
3/16	\$3.80	\$3.80	\$3.80	\$3.80	\$3.80	\$4.75	\$4.75	\$4.75	\$4.75	\$5.50	\$5.50	\$5.50	\$5.50	\$6.50	
1/4	\$3.80	\$3.80	\$3.80	\$3.80	\$3.80	\$4.75	\$4.75	\$4.75	\$4.75	\$5.50	\$5.50	\$5.50	\$5.50	\$6.50	
5/16	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.50	\$11.50	\$11.50	\$11.50	\$13.25	
3/8	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.50	\$11.50	\$11.50	\$11.50	\$13.25	
1/2	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.50	\$11.50	\$11.50	\$11.50	\$13.25	
5/8	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.50	\$11.50	\$11.50	\$11.50	\$13.25	
11/16	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.50	\$11.50	\$11.50	\$11.50	\$13.25	
3/4	\$7.50	\$7.50	\$7.50	\$7.50	\$7.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.50	\$11.50	\$11.50	\$11.50	\$13.25	
13/16	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.75	\$11.75	\$11.75	\$11.75	\$14.00	\$14.00	\$14.00	\$14.00	\$16.75	
7/8	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.75	\$11.75	\$11.75	\$11.75	\$14.00	\$14.00	\$14.00	\$14.00	\$16.75	
15/16	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.75	\$11.75	\$11.75	\$11.75	\$14.25	\$14.25	\$14.25	\$14.25	\$16.75	
1	\$9.50	\$9.50	\$9.50	\$9.50	\$9.50	\$11.75	\$11.75	\$11.75	\$11.75	\$14.25	\$14.25	\$14.25	\$14.25	\$16.75	
1-1/8	\$11.50	\$11.50	\$11.50	\$11.50	\$11.50	\$14.25	\$14.25	\$14.25	\$14.25	\$17.00	\$17.00	\$17.00	\$17.00	\$20.00	
1-1/4	\$11.50	\$11.50	\$11.50	\$11.50	\$11.50	\$14.25	\$14.25	\$14.25	\$14.25	\$17.00	\$17.00	\$17.00	\$17.00	\$17.25	
1-1/2	\$9.50	\$9.50	---	\$9.50	\$9.50	\$12.00	---	---	---	\$14.75	---	---	---	\$17.25	
1-5/8	---	\$11.80	---	---	\$13.50	---	---	---	---	---	---	---	---	\$17.75	\$29.50

* 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	\$0.34	\$0.34	\$0.38	\$0.40	\$0.49	\$0.52	\$0.57	\$0.72	\$0.80	\$0.92	\$1.17	\$1.39	\$1.64	\$1.87	\$2.05	\$2.25
3/16	\$0.34	\$0.34	\$0.38	\$0.40	\$0.49	\$0.53	\$0.57	\$0.70	\$0.80	\$0.92	\$1.17	\$1.39	\$1.64	\$1.87	\$2.05	\$2.25
1/4		\$0.33	\$0.37	\$0.40	\$0.50	\$0.52	\$0.57	\$0.70	\$0.80	\$0.90	\$1.17	\$1.39	\$1.64	\$1.87	\$2.05	\$2.25
5/16			\$0.42	\$0.49	\$0.72	\$0.81	\$0.85	\$0.90	\$0.95	\$1.05	\$1.39	\$1.72	\$1.87	\$2.10	\$2.50	\$2.75
3/8				\$0.72	\$0.84	\$0.98	\$1.23	\$1.48	\$1.74	\$1.95	\$2.45	\$2.95	\$3.45	\$3.55	\$4.50	\$4.90
1/2					\$1.12	\$1.35	\$1.62	\$1.87	\$2.05	\$2.70	\$3.25	\$3.75	\$4.40	\$4.75	\$5.25	\$5.25
5/8							\$1.62	\$1.89	\$2.15	\$2.35	\$2.80	\$3.55	\$3.90	\$4.70	\$5.00	\$5.25
3/4								\$1.95	\$2.20	\$2.50	\$3.05	\$3.75	\$4.05	\$4.85	\$5.25	\$5.75
7/8									\$2.50	\$2.80	\$3.40	\$4.05	\$4.65	\$5.00	\$5.75	\$6.25
1										\$4.00	\$4.00	\$4.75	\$5.00	\$5.50	\$6.25	\$6.75

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.

SPRUCE KITS – Balsa – NAILS

WP

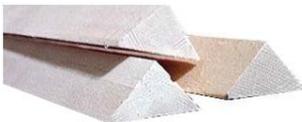
COMPLETE SPRUCE KITS

Acro Sport	02-03700	\$784.43
Acro Sport II	02-03800	\$1,540.57
Baby Great Lakes.....	02-03900	\$982.44
Bobcat	02-25100	\$1,071.00
Christavia MK 1	01-39880	\$1,355.00
Christavia MK 4	01-39910	\$2,169.84
Corby Starlet CJ-1 (less spars).....	02-04300	\$1,227.99
Cvjetkovic CA-65.....	02-04400	\$2,330.75
Cygnat	02-04500	\$1,922.52
EAA Bi-Plane (Original Wing)	02-00223	\$1,450.00
EAA Bi-Plane (P-Wing)	02-04600	\$1,356.00
Fly Baby Spruce Kit.....	01-00977	\$2,564.10
GN-1 Aircamper **.....	02-04700	\$2,427.52
GP-4	02-25200	\$5,063.48
Hatz Bi-Plane	02-04800	\$2,088.68
Kelly-D	02-04900	\$804.00
Mitchell B-10.....	02-05000	\$669.00
One Design	See Page 15 for Kits	
Osprey II **	02-05100	\$4,545.10
Original Pietenpol Aircamper.....	See Page 18 for Kits	
Pitts Special (Basic) M-6 or S-1D	02-05200	\$1,378.50
Pober Pixie (spruce & plywood).....	01-01136	\$2,058.96
Rand KR-1 **	02-05400	\$1,183.69
Rand KR-2 **	02-05500	\$1,381.76
Rand KR-2S	02-05510	\$1,490.47
Skybolt.....	02-05700	\$1,644.14
Smith Miniplane.....	02-05800	\$753.99
VP-1	01-00222	\$833.55
VP-2	02-08800	\$921.60
Volmer Sportsman VJ-22 (less wings).....	02-06000	\$2,438.77
War Aircraft Corsair.....	02-06100	\$1,528.53
War Aircraft P-47.....	02-06200	\$684.05
War Aircraft FW-190.....	02-06300	\$1,534.00
War Aircraft Sea Fury.....	02-06400	\$564.00
Wittman Tailwind**	02-06500	\$1,296.00

**** Wing & aileron spars finished to net dimensions. Not beveled.**

NOTE: Our spruce kits are produced from materials lists which are believed to be accurate. However, since designers may modify certain dimensions after the original plans are released, we urge the builder to verify sizes and current price before ordering.

WE CHARGE NO PACKING CHARGES ON SPRUCE



TRIANGULAR CORNER BLOCKING

90° Corner Blocking
Order by the foot.

Size	Price Part No.	Per Ft.	Size	Part No.	Price
1/4"	02-17600	\$0.57	1/2"	02-18000	\$1.09
5/16"	02-17700	\$0.74	5/8"	02-18100	\$1.15
3/8"	02-17800	\$0.47	3/4"	02-18200	\$2.05
7/16"	02-17900	\$0.79	7/8"	02-18300	\$2.20



"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

Add 20% for lengths over 8 feet.

AIRCRAFT SPRUCE AND PLYWOOD REFERENCE MANUAL

Reprint of Government Specifications MIL-S-6073 and MIL-P-6070.
P/N 13-14900

\$5.95

SPAR KITS

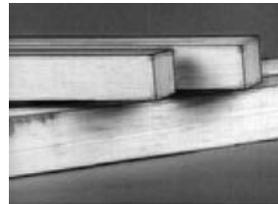
Acro Sport	02-06600	\$735.20
Acro Sport II	02-03810	\$755.79
Baby Great Lakes.....	02-06700	\$588.40
Bakeng Duce.....	02-06800	\$496.00
Barracuda	02-06900	\$956.03
Bowers Fly Baby (Spars)	02-07000	\$591.50
Bowers Complete Wing Kit	02-07100	\$1,493.87
Christavia MK 4	01-39980	\$2,169.84
Corby Starlet (Two Piece Wing Spar Kit).....	02-09000	\$464.07
Cvjetkovic CA-65	02-07300	\$1,613.00
EAA Bi-Plane (Original Wing)	02-07400	\$944.00
EAA Bi-Plane (P- Wing)	02-00222	\$878.00
Hatz Bi-Plane	02-07500	\$1,238.00
Kelly-D	02-07600	\$1,061.00
Marquart Charger.....	02-07700	\$1,082.50
Pitts Special M-6 or S-1D.....	02-07800	\$657.90
One Design	See Page 15 for Kits	
Sausser P6E	02-02000	\$1,264.90
Skybolt.....	02-07900	\$1,260.18
Smith Miniplane.....	02-08000	\$410.75
Stolp Starduster Single Place	02-08200	\$718.35
Starduster "Too"	02-08300	\$1,051.25
Starlet	02-08400	\$447.95
Wittman Tailwind	02-08500	\$621.50
Wittman "V"	02-08600	\$343.95

SPRUCE KITS FOR UNLISTED DESIGNS CAN BE FURNISHED IF A MATERIALS LIST IS SUBMITTED.

TYPICAL WEIGHTS OF SPRUCE KITS

EAA Bi-Plane Complete Kit	99 Lbs.
Pitts Special Complete Kit	73 Lbs.
Pitts Special Spar Kit Only	35 Lbs.
Miniplane Complete Kit	49 Lbs.
Fly Baby Complete Kit	132 Lbs.
KR-1 Complete Kit	61 Lbs.

BALSA 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 4" x 3 ft Pc..... P/N 02-03500

ACTUAL SIZES OF BOARDS CAN VARY

AIRCRAFT NAILS

Flat, bonderized steel nails, brass plated to prevent rusting and cement coated to improve holding power. Manufactured to Federal Specification FF-N-105 (formerly AN301). Order by part no.



Part No.	Size		Price		
	Length	Gauge	1/4 Lb.	1/2 Lb.	1 Lb.
AN301-20-2	1/4"	20	\$4.38	\$8.75	\$17.50
AN301-20-3	3/8"	20	\$5.46	\$10.93	\$21.85
AN301-20-4	1/2"	20	\$4.14	\$8.28	\$16.55
AN301-20-5	5/8"	20	\$2.70	\$5.40	\$10.80
AN301-20-6	3/4"	20	\$5.24	\$10.48	\$20.95
AN301-20-8	1"	20	\$5.88	\$11.75	\$23.50

There are approximately 9,000 3/8" x 20 steel nails per pound.

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--	\$116.75	7 Lbs.	02-243--	\$89.90
3/32	(.100)	2.5	3	10 Lbs.	02-191--	\$139.75	12 Lbs.	02-244--	\$95.25
1/8	(.125)	3.2	3	12 Lbs.	02-193--	\$139.95	15 Lbs.	02-245--	\$97.50
3/16	(.190)	4.8	3-5	20 Lbs.	02-195--	\$208.95	24 Lbs.	02-246--	\$215.95
1/4	(.250)	6.4	5	25 Lbs.	02-197--	\$267.95	30 Lbs.	02-247--	\$259.95
5/16	(.312)	7.9	5	Lbs.	02-198--	\$284.95	30 Lbs.	02-251--	\$269.95
3/8	(.375)	9.5	5	Lbs.	02-199--	\$299.95	30 Lbs.	02-266--	\$309.00
7/16	(.437)	11.1	7	Lbs.	02-120--	\$289.95	30 Lbs.	02-267--	\$378.00
1/2	(.500)	12.7	7	Lbs.	02-121--	\$364.00	30 Lbs.	02-260--	\$321.95
			45° Mahogany			45° Birch			
1/16	(.070)	1.5	3	6 Lbs.	02-188--	\$227.95	7 Lbs.	02-248--	\$212.95
3/32	(.100)	2.5	3	10 Lbs.	02-190--	\$252.95	12 Lbs.	02-249--	\$227.95
1/8	(.125)	3.2	3	12 Lbs.	02-192--	\$258.95	15 Lbs.	02-250--	\$227.95
1/4	(.250)	6.4	5	---	---	---	30 Lbs.	02-271--	\$420.95

*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	\$29.38	02-20200	\$58.75	
1/32	0.8	3	02-20350	\$16.25	02-20300	\$32.50	
3/64	1.0	3	02-50050	\$19.95	02-50000	\$39.90	
1/16	1.5	3	02-20450	\$19.33	02-20400	\$38.65	
3/32	2.5	5	02-20550	\$31.38	02-20500	\$62.75	
1/8	3	5	02-20650	\$33.88	02-20600	\$67.75	
5/32	4	8	02-00237	\$57.98	02-00236	\$115.95	
3/16	5	10	02-20750	\$71.95	02-20700	\$143.90	
1/4	6	12	02-20850	\$56.38	02-20800	\$112.75	

Corby Startlet 2MM x 48" x 48" P/N 02-28050 \$49.90
1/4 Birch/Poplar 5ply, 45° P/N 02-27180 \$420.95



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 \$69.50
6mm thick x 4' x 8' sheet P/N 02-00076 \$99.85



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 \$36.50
4' X 8' Sheet 1/4" 6MM P/N 02-00116 \$56.50



ROYAL MARINE A-B FIR PLYWOOD

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

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

Thick-ness	No. of Plies	Part No.*	Price			
			2'x2'	2'x4'	4'x4'	4'x8'
1/4"	3	02-210--	\$12.84	\$24.69	\$49.38	\$98.75
3/8"	4	02-211--	\$10.37	\$19.94	\$39.88	\$79.75
1/2"	5	02-212--	\$11.25	\$22.00	\$44.75	\$79.50
5/8"	7	02-213--	\$12.84	\$24.69	\$49.38	\$98.75
3/4"	7	02-214--	\$12.70	\$24.41	\$48.83	\$97.65
1"	7	02-215--	\$17.00	\$33.00	\$66.50	\$133.75

*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--	\$15.75	\$30.50	\$61.50	\$123.95
3/32"	3	02-254--	\$15.99	\$31.99	\$63.98	\$127.95
1/8"	3	02-255--	\$16.87	\$32.44	\$64.88	\$129.75
3/16"	3	02-256--	\$18.00	\$35.00	\$70.50	\$139.75
1/4"	5	02-257--	\$30.75	\$48.50	\$97.50	\$195.95
5/16"	5	02-258--	\$24.50	\$49.71	\$99.43	\$223.95
3/8"	5	02-261--	\$27.75	\$53.50	\$106.95	\$215.95
7/16"	7	02-262--	\$32.75	\$126.95	\$126.95	\$274.95
1/2"	7	02-263--	\$38.25	\$74.00	\$147.95	\$316.00
5/8"	9	02-265--	\$42.00	\$81.00	\$192.95	\$384.95
3/4"	9	02-264--	\$57.50	\$110.95	\$221.95	\$444.95

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 \$36.00
2X4 P/N 02-27240 \$69.50
4X4 P/N 02-27260 \$138.95
4X8 P/N 02-27280 \$298.65
4X8 90° P/N 02-25880 \$223.95

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

INSTANT GLUES – POLYFIX™ GLUES

INSTANT GLUES

WP



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\$10.75

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\$10.75

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\$11.75

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\$12.95

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\$9.75

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\$54.85

POLYFIX 7000 EXTRA THICK



This non clog bottle will take care of the problems of plugged up tips. This Extra Thick C.A. polyfix works on ceramics, glass, metal, rubber laminating, soft wood, hard wood and is also water resistant. This C.A. can be carved with a knife or razor blade and can be sanded with foam which leaves an indistinguishable finish from plastic.
P/N 01-01217\$19.95

POLYFIX 8000 HIGH VISCOSITY GAP FILLING



This non clog bottle will take care of the problems of plugged up tips. This High Viscosity gap filling C.A. polyfix works on ceramics, glass, metal, rubber laminating, soft wood, hard wood and is also water resistant. This C.A. can be carved with a knife or razor blade and can be sanded with foam which leaves an indistinguishable finish from plastic.
P/N 01-01218\$19.95

POLYFIX 15000 THIN INDUSTRIAL



This non clog bottle will take care of the problems of plugged up tips. This thin industrial C.A. polyfix works on ceramics, glass, metal, rubber laminating, soft wood, hard wood and is also water resistant. This C.A. can be carved with a knife or razor blade and can be sanded with foam which leaves an indistinguishable finish from plastic.
P/N 01-01219\$19.95

POLYFIX™ 11000 GAP FILLING CYANOACRYLATE



This 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 lamination

Polyfix™ 11000 gap filling should be used. To prevent premature curing, don't spread the glue into a thin film, lay down a serpentine bead with about 1" separation on one surface, then assemble the parts, letting the pressure spread the ca out. MIL SPEC-A-46050-C. (CAS NO. 7085-85-0)

Description	Part No.	Price
Polyfix™ 11000 Gap Fill 1/2 oz	01-01016	\$6.50
Polyfix™ 11000 Gap Fill 1/2 oz. Brush on	01-01238	\$6.65
Polyfix™ 11000 Gap Fill 1 oz	01-01017	\$7.95
Polyfix™ 11000 Gap Fill 2 oz	01-01018	\$12.75
Polyfix™ 11000 Gap Fill 8 oz	01-01019	\$36.75

POLYFIX™ 4000 INDUSTRIAL FLEXIBLE THIN



This low odor flexible thin ca is ideal for many applications. Low odor flexible does not turn brittle and remains clear, even if Accelerator. With Polyfix™ 10000 Accelerator it has superior shock resistance and still has good penetrating qualities and its application can be easier to control for ca and has a different, less irritating odor compared to regular ca's, but still can prove to be superior when bonding anodized aluminum. 1 fl. oz. MIL SPEC-A-46050-C. (CAS NO. 6606-65-1)
P/N 01-01020\$15.85

POLYFIX™ 3000 CLEAR FLEXIBLE RUBBER GAP FILLING



Flex gap clear rubber toughened can be used in applications where you do not want the adhesive to be seen it is still superior to standard ca's when aesthetics are important and a flexible bond is required this product is your best choice. It forms to soft urethane and vinyl plastic, and shock resistant bonds. MIL SPEC-A-46050-C. (CAS NO. 7085-85-0)

Description	Part No.	Price
Polyfix™ 3000 Rubber Fill 1 OZ	01-01021	\$6.75
Polyfix™ 3000 Rubber Fill 2 OZ	01-01022	\$12.50

POLYFIX NON-CLOG CYANOACRYLATE APPLICATOR



Reach in a small area where you need to do a repair. Can reach 5-1/2" or if you need to control small drops. Sold in boxes of 24.

Description	Part No.	Price
Non-Clog Applicator Regular Tip	01-01006	\$15.50
Non-Clog Applicator Fine Tip	01-01007	\$15.50

POLYFIX™ GLUES AND ADHESIVES

POLYFIX™ 17000 INDUSTRIAL ODORLESS THIN



This has a water thin viscosity that wicks deep into joints by capillary action and cures in a matter of a few seconds. Surface to be bonded must be tight fitting and should be held together while applying the ca around the edges of the seams, at the moment ca's cure eliminates the irritating fumes from the evaporating monomer that makes repeated of ca's unpleasant at times. MIL SPEC-A-46050-C (CAS NO. 27816-23-5)

Description	Part No.	Price
Polyfix™ 17000 Industrial Thin 1/2 oz	01-01023	\$9.25
Polyfix™ 17000 Industrial Thin 1 oz	01-01024	\$16.95
Polyfix™ 17000 Industrial Thin 2 oz	01-01025	\$28.95

POLYFIX™ 17500 PLUS INDUSTRIAL ODORLESS GAP FILLING



Apply a light fog of Polyfix™ 10000 accelerator and apply Polyfix™ 17500+ gap filling. Cures to a more flexible consistence for better shock absorption, when ever a larger amount of ca is to be used in such applications as saturating fiberglass or kevlar. Polyfix™ 17500+ gap filling eliminates the irritating fumes from the evaporation monomer that makes repeated use of ca unpleasant at times. MIL SPEC-A-46050-C. (CAS NO. 27816-23-5)

Description	Part No.	Price
Polyfix™ 17500 Industrial Gap Fill 1/2 oz	01-01026	\$9.95
Polyfix™ 17500 Industrial Gap Fill 1 oz	01-01027	\$19.50
Polyfix™ 17500 Industrial Gap Fill 2 oz.	01-01028	\$30.95

POLYFIX™ 64000 INDUSTRIAL CARBON GAP CYANOACRYLATE



Polyfix™ 64000 carbon extra strength ca is a carbon toughened cyanoacrylate that forms superior shock resistant bonds on non-porous surface the black colored ca has added flexibility for the bonding carbonfiber and other advanced materials as graphite, polycarbon with honeycomb, normax aramid, graphite with aluminum honeycomb. MIL SPEC-A-46050-C (CAS NO. 7085-85-0)

Description	Part No.	Price
Polyfix™ 64000 Carbon Gap Cyanoacrylate 1/2 oz	01-01029	\$5.95
Polyfix™ 64000 Carbon Gap Cyanoacrylate 1 oz	01-01030	\$11.50
Polyfix™ 64000 Carbon Gap Cyanoacrylate 16 oz	01-01031	\$173.95

POLYFIX™ POLYDUST CATALYTIC



The patented Thermal Process Catalytically (I.C. chemically) generates heat to 142 degrees fahrenheit and actually thermal sets or fuses the repair to the Patent material. POLYFIX™ 10000 Accelerator POLYFIX™ 14000 Thin Cyanoacrylate (PJ 33) POLYDUST Catalytic filler By using these three products that was certified by Cessna

Aircraft, U.S. Army Aviation Systems, Boeing Aircraft. (CAS NO. 601-35-4)

Warning: If you use any other products with the POLYFIX™ polydust catalytic, AIRCRAFT SPRUCE AND SPECIALTY INC. AND REDAM/RB INC. WILL NOT BE RESPONSIBLE FOR ANY ACCIDENTS

Description	Part No.	Price
Polyfix™ Polydust Catalytic 10M/MG	01-01032	\$5.90
Polyfix™ Polydust Catalytic 1/2 PT	01-01033	\$39.95
Polyfix™ Polydust Catalytic 1 PT	01-01034	\$68.75

POLYFIX™ 10000 ACCELERATOR IN PLASTIC BOTTLES



Non-flammable and less than 10% degrade when applied on ca's comparing to methanol and acetone accelerator that has 13/15% degrade. This accelerator allows ca's to quickly cure by enhancing the alkaline conditions during polymerization. POLYFIX™ 10000 in a spray bottle is normally used to cure the ca that flows from joints or cracks when parts are pressed together.

Apply an additional bead of thick ca along seam and then curing with POLYFIX™ significantly enhances a crack's strength. For difficult to bond material, POLYFIX™ 10000 can be applied to one surface and ca to the opposite surface. When brought together, they will bond instantly. MIL SPEC-A-46050-C-TYPE II A OR III A. (CAS NO. 99-97-8). (CAS NO. 64742-48-9)

Description	Part No.	Price
Polyfix™ 10000 Accelerator 2 oz.	01-01035	\$11.75
Polyfix™ 10000 Accelerator Refill 8 oz	01-01036	\$18.50

POLYFIX™ 6000 DEBONDER



Will soften cured ca. If parts are bonded incorrectly or your fingers are stuck together a few drops of POLYFIX™ 6000 debonder. Will dissolve the ca in about a minute. Apply on bonded skin and roll apart fingers. Once unstuck, use Acetone to clean off softened ca then wash off with soap and water POLYFIX™ 6000 debonder will easily remove the adhesive residue. 1 fl. oz. (CAS NO. 68-12-2) P/N 01-01037\$4.50

POLYFIX 14000 THIN CYANOACRYLATE



Polyfix™ 14000 Thin Cyanoacrylate has a super thin viscosity that penetrate deep into cracks 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 seams at the moment ca's cure they give off a vapor that can irritate the nose and eyes, so be prepared. Thin ca's work very well on any type of material, form more than just a surface bond. MIL SPEC-A-46050-C. (CAS NO. 7085-85-0)

Description	Part No.	Price
Polyfix™ 14000 Thin Cyanoacrylate 1/2 oz	01-01008	\$3.95
Polyfix™ 14000 Thin Cyanoacrylate 1 oz	01-01009	\$7.95
Polyfix™ 14000 Thin Cyanoacrylate 2 oz	01-01010	\$12.95
Polyfix™ 14000 Thin Cyanoacrylate 8 oz	01-01011	\$34.95

POLYFIX 9000 EXTRA THICK



It's all a round ca for ceramics, glass, metal, rubber laminating, soft wood, hard wood. Water resistant. This ca is the best for most clear plastic including GE's Lexan when used with Polyfix™ 10000 Accelerator it will fill most voids it can be carved with a knife or razor blade and sanded to foam a finish indistinguishable from plastic its extra thick. Thickness makes it easy to work with most applications. MIL SPEC-A-46050-C (CAS NO. 7085-85-0)

Description	Part No.	Price
Polyfix™ 9000 Extra Thick 1/2 oz	01-01012	\$4.45
Polyfix™ 9000 Extra Thick 1 oz	01-01013	\$7.90
Polyfix™ 9000 Extra Thick 2 oz	01-01014	\$12.85
Polyfix™ 9000 Extra Thick 8 oz	01-01015	\$34.95

POLYFIX™ PLASTIC REPAIR KITS



Polyfix™ Thermal Fusion is a 3-part system that uses chemical reaction to heat the repair to 142°F, fusing it to the parent part. This system repairs ABS, royalite, graphite, lexan, polycarbon, Kevlar, plexiglass, fiberglass and many other materials. The system combines Industrial cyanoacrylate glue, a catalytic filler, and an accelerator. May be used on speed fairings, wing tips, cowlings, glare shields, and more. Kits include Polyfix™ Industrial chemical, polydust, gloves, finger cots, fiberglass mat, protection hand cream, no mixing tools, and an easy to follow instruction manual. Zero Shrinkage.

PLASTIC REPAIR KIT (SMALL)- Size: 1/4" x 1/8" x 30". 1/2oz. 14000 CA. Thin. 1/2oz 10000 Accelerator. 2 M/Grams Catalytic. 1-3" x 8" Fiberglass. 1/2oz Hand Cream. 1-Pair Latex Gloves. 6 Finger Cots. 1 Manual (33 Page w/words/Pictures) MIL SPEC-A-46050-C. (CAS NO. 7085-85-0). (CAS NO. 601-35-4). MIL-A-46050-C TYPE II A OR III A. (CAS NO. 90-97-8). (CAS NO. 64742-48-9) P/N 01-01045\$24.50

PLASTIC REPAIR KIT (MEDIUM) - Size: 1/4" x 1/8" x 60". 1 Manual (33 Page w/words/Pictures). 1oz 14000 CA. Thin. 4 M/Grams Catalytic. 1/2oz. Hand Cream. 1oz 10000 Accelerator. 1-3 x 12" Fiberglass. 1 Pair Latex Gloves. 10 Fingercots. G.S.A NATIONAL STOCK NO. POLYFIX. 1-LB 1800 NUMBER 8040-01-364-799. MIL SPEC-A-46050-C. (CAS NO. 7085-85-0). (CAS NO. 601-35-4). MIL-A-46050-C TYPE II A OR III A. (CAS NO. 90-97-8). (CAS NO. 64742-48-9) P/N 01-00235\$34.75

PLASTIC REPAIR KIT (LARGE) - Size: 1/4" x 1/8" x 120". 1 Manual (33 Page w/words/Pictures). 2oz. 14000 CA THIN. 2oz 10000 Accelerator. 8 M/Grams Catalytic. 10" x 10" Fiberglass (mat). 1/2oz Hand Cream. 2 Pairs latex Gloves. 20 Fingercots. MIL SPEC-A-46050-C. (CAS NO. 7085-85-0). (CAS NO. 601-35-4). MIL-A-46050-C TYPE II A OR III A. (CAS NO. 99-97-8). (CAS NO. 64742-48-9) P/N 01-00236\$59.80

PLASTIC REPAIR KIT (X-LARGE) - Size: 1/4" x 1/8" x 600". 1 Manual (33 Page w/words/Pictures). 10 oz. 14000 CA Thin. 50 M/Grams Catalytic. 1oz. Debonder. 12 Pair Latex Gloves. 10 Piece Assortment of Sandpaper. 1 Pair Scissors. 10oz 10000 Accelerator. 18" x 18" Fiberglass. 1oz. Hand Cream. 50 Fingercots. 1 Sanding Block. MIL SPEC-A-46050-C. (CAS NO. 7085-85-0). (CAS NO. 601-35-4). MIL-A-46050-C TYPE II A OR III A. (CAS NO. 99-97-8). (CAS NO. 64742-48-9). (CAS NO. 68-12-2). P/N 01-00237\$354.00

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INSTANT GLUES & ADHESIVES

WP



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\$13.80



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 hours.

P/N 01-01444\$13.90



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\$5.35

2 oz.P/N 01-01447\$8.65



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\$5.35

2 oz.P/N 01-01448\$8.65

8 oz. RefillP/N 01-01458\$26.50



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\$5.35

2 oz.P/N 01-01449\$8.70



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, and TEO. 2 fl. oz. (59 ml) bottle.....P/N 01-01434\$21.50



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\$13.90



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\$15.50



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. Compatible with all surfaces, even clear plastic and white foam.

Description	Part No.	Price
Spray Bottle	01-01453	\$5.35
Spray Bottle Refill	01-01454	\$10.60
Aerosol	01-01455	\$10.60



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\$3.80



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\$5.35

ADHESIVES - GLUES

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 **\$26.50**
 Quart Kit (Qt A, 1/2lb B) P/N 02-00037 **\$44.50**
 Gallon Kit (Gal A, 2lbs B) P/N 02-00038 **\$154.95**

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 **\$52.50**

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 **\$96.75**

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	\$22.97
01-01071	Static Mixers	2 ea	\$4.35

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 **\$24.60**

3M™ EPX Pneumatic Mix Nozzle 9742 P/N 09-01372 **\$2.67**

FASTWELD 10 A/B HIGH SETTING EPOXY GUN

Dual cartridge dispenser gun designed for use with 50ml style adhesive cartridges.

P/N 09-03455 **\$73.75**

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 **\$12.85**
 Single use (4 tubes) P/N 02-00225 **\$4.95**

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.....**\$19.50** Pt. Kit..... P/N 02-00047**\$24.75**
 Qt. Kit P/N 02-00048.....**\$38.70** Gal. Kit.... P/N 02-00049 ..**\$109.80**

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 **\$21.50**

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 **\$2.85**

WELDWOOD GLUE



A powdered, urea formaldehyde wood glue activated by mixing with water. Forms a bond stronger than the wood itself. Mets Fed. Spec. A-A-3052. Low VOC.

1 Lb P/N 0203 **\$17.60**
 4.5 Lb P/N 0204 **\$62.95**

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 **\$52.75**

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 **\$11.95**
 7" stick..... P/N 01-00332 **\$13.95**

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 **\$14.75/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 **\$22.94**

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 **\$33.35**

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 **\$33.35**

WP

ADHESIVES

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	\$45.75
02-30020	1/2 quart part B only	3.0	\$41.70
02-30025	ES6279 QUART KIT	6.0	\$87.00
02-30030	1/2 gallon part A only	12.0	\$129.75
02-30035	1/2 gallon part B only	12.0	\$132.75
02-30040	ES6279 GALLON KIT	24.0	\$261.95
02-30045	1/2 pail part A only	60.0	\$466.95
02-30050	1/2 pail part B only	60.0	\$418.95
02-30055	ES6279 PAIL KIT	120.0	\$884.00

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. When cured ES6209 provides tough, durable structural joints. Mix Ratio: 1 to 1 by weight or volume; Color: Translucent Amber, Mixed Viscosity: 45,000-55,000cps; Pot Life 4fl. oz. Mass: 60-90 min @ 77°F; Cure Time @ 77°F 18-24 hrs. @ 140°F 2-3 hrs.

Quart Kit P/N 01-00295 \$56.75

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. Viscosity: Non-Sag Paste. Specific Gravity, gms/cc: 1.11. Mix Ratio: 100 : 50 By Weight or Volume. Pot Life, 4 fl.oz. Mass @ 77°F: 90 minutes.

Qt. Kit P/N 01-01595 \$77.85
Gal. Kit P/N -01-01596 \$264.95

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 \$14.70
11 oz tube P/N 02-00233 \$22.50

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 \$72.75
Gallon Kit (18 lbs) P/N 01-00414 \$227.95

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 Sculpwood 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 \$44.65/ea

SYSTEM THREE SCULPWOOD



Sculpwood is a moldable, carvable, sandable epoxy putty for replacement of damaged wood. It forms a strong, permanent bond to most rigid surfaces and can be sawed, nailed, carved, machined, sanded, stained, painted, and screwed. Porous, rotted, or deteriorate wood should first be treated with RotFix.

2 pint (32 oz) Kit P/N 02-90055 \$44.50/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 \$29.95
Quart Kit P/N 02-30065 \$53.85

SCIGRIP 4SC LOW VOC ACRYLIC PLASTIC CEMENT



SCIGRIP 4SC is a water thin, somewhat flammable, cement formulated to quickly develop very clear and high strength bonds for many thermoplastic substrates. It will also bond with other thermoplastics such as polystyrene, CAB (cellulose acetate butyrate), and polycarbonate to themselves. It is not recommended for cross-linked acrylic.

P/N 03-00243 \$23.50

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 \$3.95
Super Glue Gel P/N 09-04094 \$3.95

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 \$21.99
Pint Kit P/N 01-00407 \$33.50
Quart Kit P/N 01-00408 \$46.95

WP