

# COMPOSITE SAFETY EQUIPMENT

CM

Adequate safety protection cannot be stressed too highly. Eyes, lungs, and skin are exposed to harmful chemicals and abrasive objects which can be discomfiting or permanently disabling. Always wear glasses when working with the Dremel grinder to protect the eyes from flying particles. Sanding or grinding fiberglass and foams creates dust that can be harmful to the lungs. Use a dust respirator mask or a disposable type. Many individuals will develop an allergy when working with epoxy with bare hands. Skin protection measures should always be taken.



## INVISIBLE GLOVES #1211

Invisible Gloves #1211 are a soft paste-like substance that when applied to hands provide protection against caustic and carcinogenic chemical products including hydraulic fluid, paints, ink, MEK, zink chromate, jet fuel, graphite, engine exhaust by-products, adhesives and much more. Invisible Gloves meets military and industrial safety standards and can protect any area of the body (hands, arms, face, legs, etc...) exposed to hazardous products. Especially useful in working with materials used in composite aircraft construction. One pint yields 100 pair of gloves. Invisible Gloves #1211 are easily removed with water. Allows complete freedom of hand and finger movement. Hands will not heat up and tools will not slip.

P/N 12-15800.....\$7.35/pint



## GLOVES IN A BOTTLE

Protect your hands with a protective skin lotion called Gloves in a Bottle. Perfect for home-builders, particularly those who work with composite aircraft, it binds with skin, forming an invisible pair of gloves to help protect against machinery and chemicals. It also protects against cracking and drying due to cold weather. Conventional lotions try to replace natural moisture with artificial moisture, but they come off when you wash or touch something. Gloves in a bottle keeps moisture-robbing irritants out while helping to retain your skin's natural moisture, resulting in better-hydrated skin. When applied, the invisible gloves are undetectable once they dry and last four hours or more. they come off naturally with exfoliated skin cells.

**FEATURES:** • Fragrance and colorant free, hypoallergenic, non-greasy, non-sticky • Turns the outer layer of skin into what works like an invisible pair of gloves • Will not wash off. Literally becomes part of the outer layer of skin itself and comes off naturally with the outer layer of skin • Used and recommended by many hundreds of dermatologists and many thousands of other health care professionals • Keeps out irritants that rob the skin of natural oils and moisture and helps retain skin's own natural oil and moisture • Conventional lotions only attempt to replace natural moisture with artificial moisture but they don't really work because every time you wash or touch something they come off.

2 oz. ....P/N 01-00655 .....\$4.95  
8 oz. ....P/N 01-00656 .....\$12.95

## SERIES 8 - THE WASH-OFF HAND PROTECTION



A less expensive "clone" of the famous PR88 hand creme developed in Europe, Series 8 is highly recommended by Rutan Aircraft Factory for working with epoxies. It protects hands from most epoxies, grease, oil paint, paste, gasoline, tar, lacquer, acetone, styrene, fiberglass and many more substances. It

helps prevent chapping, cracking and drying of hands, and is an excellent aid to persons with sensitive skin. No soap is needed for cleanup - hands wash clean with water alone.

4 Oz. Plastic Cup .....P/N 13-38302 .....\$4.85  
32 Oz. (Qt.) Plastic Jar .....P/N 13-38306 .....\$14.60

## PLY NO. 9 PROTECTIVE HAND GEL

Provides a thin, invisible, flexible film which is an excellent barrier to epoxy resins, rubber adhesives, vinyl plasticizers, polyester resins and glass fibers. Epoxy and gel wash off easily in soap and water.

One-Lb. Jar .....P/N 01-36100 .....\$5.20



## REPLACETONE

Cleans polyester and epoxy resins from tools and hands without the hazards associated with chemical cleaning solvents. It is a non-volatile, non-flammable, and a biodegradable replacement for acetone and MEK solvents. Replacetone separates resins to the bottom of the cleaning container, but it does not dissolve them. Pour off non-emulsified Replacetone and use again.

Quart .....P/N 01-08823.....\$11.20  
Gallon.....P/N 01-08834 .....\$19.30

## LATEX GLOVES

Disposable but reusable gloves which resist tearing. Large size. Fits right or left hand. Box of 100.

P/N 01-36550 .....\$10.40



## COTTON GLOVES

Lightweight liners - wear under latex gloves. More comfort, improved sensitivity.

P/N 01-36600 .....\$0.65/Pair

## BUTYL GLOVES

These gloves are resistant to the permeation of epoxy resins and curing agents and have been found to offer by far the best protection of any glove available.

P/N 01-36700.....\$18.70



## TYVEK SUITS

These are the tough, full-body suits with hoods that professional painters use. Available in extra large or extra extra large.

X-Large ....P/N 01-36800 ..\$6.95  
XX-Large ..P/N 01-36805 ..\$9.95

## DENATURED ALCOHOL

Can be mixed with soap and water. Is harmless to rubber. Use as a solvent for thinning, removing and cleaning epoxy, brushes, and equipment.

Gallon ..P/N 01-00399..\$12.90



## EPO-CLEANSE HAND CLEANER NO. RF-70A

Epoxy on unprotected skin should be washed away with Epo-Cleanse. Rub well, rinse with water. Epo-Cleanse restores natural skin oils.

One-Pint Bottle .....P/N 01-36200.....\$4.95  
One-Qt. Bottle .....P/N 01-36300.....\$9.75  
One-Gal. Bottle .....P/N 01-36400.....\$38.85



# AIRCRAFT SITKA SPRUCE

## AIRCRAFT SITKA SPRUCE – "CREAM OF THE CROP"

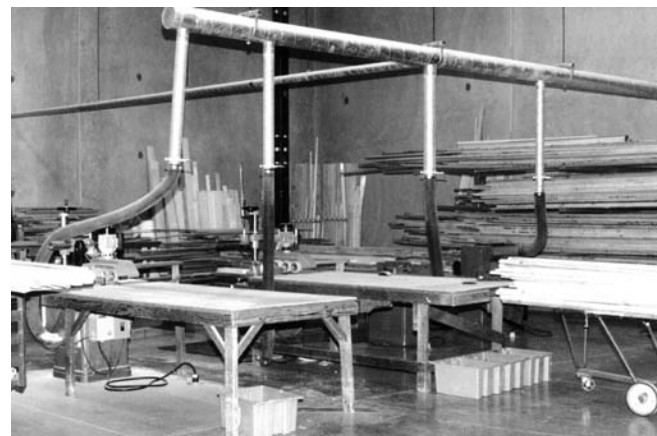
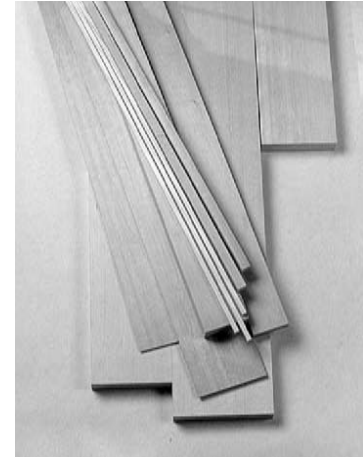


**F**rom the vast forests of the "Big Sky Country" in the Pacific Northwest comes the Sitka Spruce for your aircraft. Lumber inspectors are sent to the mills in British Columbia and Alaska as the ravages of two wars have depleted almost all of the "old growth" in the United States from which aircraft grade Spruce is developed. The present aircraft Sitka Spruce production is from trees 50 to 75 years old and older. These experts supervise the sawing at the mills, for from their many years of experience in working with this particular grade they are able to direct the sawyers to get the best production from the log. The lumber is sawed into large timbers and shipped from Alaska by barge to Seattle or Tacoma and then via truck, or from Canadian points via rail, direct to the remanufacturing plant. At that point, the lumber, which is in large timbers or "cant form", is again sawed slowly and carefully by trained sawyers with 30 to 40 years experience who "upgrade" the aircraft grade from the high-grade cants developed at the mill. To meet the specification of "Aircraft Sitka Spruce" grade, the lumber must be kiln dried to a government specification known as AN-W-2. This specification requires that the specific gravity shall be not less than .36, the slope of the grain shall not be steeper than 1 in 15, must be sawn vertical-grain (sometimes called edge-grained), and shall have no fewer than six annular rings per inch. Pitch pockets, bark pockets, streaks, compression wood, wane and brashness cannot be admitted. Certain very tight knots are allowed under certain conditions. After the kiln drying operation, further grading is done and if, after surfacing, no defects are found, it is ready for milling to size and final inspection per government specification MIL-S-6073. The rate of rejection at this point is extremely high even though there has been constant grading and selection at many points beforehand. You can readily appreciate why the industry refers to aircraft Sitka Spruce as the "Cream of the Crop". Although the supply is now limited, the same rigid standards are maintained as were held in the selection of spars for Charles Lindbergh's "Spirit of St. Louis" and the thousands of planes used in both World Wars.

WP

**T**he lumber which does not meet the aircraft specifications has diversified uses. Sitka Spruce is known as the "acoustical" wood for it has a resonance peculiar only to this species. For this reason it is very suitable for the manufacture of piano sounding boards, keyboards, guitars, violins and hi-fi components. Because it is extremely resilient and has the highest strength to weight ratio of any wood known, it is in demand by manufacturers of ladders, scaffolding, staging and gymnastic equipment. Sitka Spruce is tasteless and odorless and as a result is used for butter molds, food lockers, bowls, trays and cutting boards. The very smallest pieces are manufactured into kite sticks.

**F**or many builders there is no more pleasurable and satisfying hobby than working with wood—especially working with the beautiful quality of wood like aircraft grade Spruce. Although prices have more than doubled in the past five years, Aircraft Spruce is still very reasonably priced when one considers that almost all of our lumber now comes from Alaska, that there are many, many hours required in shipping, resawing and grading the yield into the applicable classifications such as aircraft, spar and mast, music stock, ladder and lesser grades. It is a marvel that we can still get the lumber needed to build and restore the wooden airplanes. Nothing is prettier than a beautifully turned out wooden airplane so it is gratifying to know that the craftsmen can continue practicing their skills.



*The experienced Aircraft Spruce and Specialty Co. woodworking department will custom cut your spruce spars or capstrip to the exact thickness, width, and length required.*

**AIRCRAFT SPRUCE WEST**  
CORONA, CA • (877) 4-SPRUCE

**53**  
Prices Subject to Change Without Notice

**AIRCRAFT SPRUCE EAST**  
PEACHTREE CITY, GA • (877) 477-7823

# SPARS – CAPSTRIP – STRINGERS

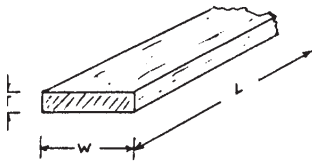
## GENERAL ORDERING INFORMATION

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. warehouse. 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 ..... **\$3.50**



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.

### NOTICE

We supply only certified aircraft grade spruce spars which meet Mil-S-6073. Do not accept lower grades of spruce for lower prices in your project. It is no bargain. Demand top quality. Capstrip may be cut from "C and better" graded spruce as it is non-structural.  
**No Packaging Charges On Spruce**



### 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 ..... Now Only **\$25.00**

## SPRUCE SPAR STOCK—MIL SPEC. MIL-S-6073

THICKNESS (Inches)	PRICE PER LINEAL FOOT*													
	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	\$2.65	\$2.65	\$2.65	\$2.65	\$2.65	\$3.35	\$3.35	\$3.35	\$3.35	\$3.95	\$3.95	\$3.95	\$3.95	\$4.70
3/16	\$2.65	\$2.65	\$2.65	\$2.65	\$2.65	\$3.35	\$3.35	\$3.35	\$3.35	\$3.95	\$3.95	\$3.95	\$4.00	\$4.70
1/4	\$2.65	\$2.65	\$2.65	\$2.65	\$2.65	\$3.35	\$3.35	\$3.35	\$3.35	\$3.95	\$3.95	\$3.95	\$3.95	\$4.70
5/16	\$5.35	\$5.35	\$5.35	\$5.35	\$5.35	\$6.70	\$6.70	\$6.70	\$6.70	\$7.95	\$7.95	\$7.95	\$7.95	\$9.35
3/8	\$5.35	\$5.35	\$5.35	\$5.35	\$5.35	\$6.70	\$6.70	\$6.70	\$6.70	\$7.95	\$7.95	\$7.95	\$7.95	\$9.35
1/2	\$5.35	\$5.35	\$5.35	\$5.35	\$5.35	\$6.70	\$6.70	\$6.70	\$6.70	\$7.95	\$7.95	\$7.95	\$7.95	\$9.35
5/8	\$5.35	\$5.35	\$5.35	\$5.35	\$5.35	\$6.70	\$6.70	\$6.70	\$6.70	\$7.95	\$7.95	\$7.95	\$7.95	\$9.35
11/16	\$5.35	\$5.35	\$5.35	\$5.35	\$5.35	\$6.70	\$6.70	\$6.70	\$6.70	\$7.95	\$7.95	\$7.95	\$7.95	\$9.35
3/4	\$5.35	\$5.35	\$5.35	\$5.35	\$5.35	\$6.70	\$6.70	\$6.70	\$6.70	\$7.95	\$7.95	\$7.95	\$7.95	\$9.35
13/16	\$6.70	\$6.70	\$6.70	\$6.70	\$6.70	\$8.35	\$8.35	\$8.35	\$8.35	\$9.95	\$9.95	\$9.95	\$9.95	\$11.70
7/8	\$6.70	\$6.70	\$6.70	\$6.70	\$6.70	\$8.35	\$8.35	\$8.35	\$8.35	\$9.95	\$9.95	\$9.95	\$9.95	\$11.70
15/16	\$6.70	\$6.70	\$6.70	\$6.70	\$6.70	\$8.35	\$8.35	\$8.35	\$8.35	\$9.95	\$9.95	\$9.95	\$9.95	\$11.70
1	\$6.70	\$6.70	\$6.70	\$6.70	\$6.70	\$8.35	\$8.35	\$8.35	\$8.35	\$9.95	\$9.95	\$9.95	\$9.95	\$11.70
1-1/8	\$7.95	\$7.95	\$7.95	\$7.95	\$7.95	\$9.95	\$9.95	\$9.95	\$9.95	\$11.95	\$11.95	\$11.95	\$11.95	\$13.95
1-1/4	\$7.95	\$7.95	\$7.95	\$7.95	\$7.95	\$9.95	\$9.95	\$9.95	\$9.95	\$11.95	\$11.95	\$11.95	\$11.95	\$13.95
1-1/2	\$5.44	\$5.92	---	\$6.88	\$7.36	\$8.00	---	---	---	\$9.92	---	---	---	\$12.00

\* Prices shown are for lengths to 12 feet. Add 15% per foot for lengths longer than 12 feet. 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 02-11460. Provide part number and footage required of each size. Specify any particular lengths required. Thicker & wider sizes subject to availability. Request quotation.

## FINISHED CAPSTRIP, LONGERONS, STRINGERS

THICKNESS (Inches)	PRICE PER LINEAL FOOT*															
	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	\$0.21	\$0.21	\$0.23	\$0.25	\$0.30	\$0.32	\$0.35	\$0.43	\$0.49	\$0.55	\$0.71	\$0.84	\$0.99	\$1.13	\$0.34	\$1.40
3/16	\$0.21	\$0.21	\$0.23	\$0.25	\$0.30	\$0.32	\$0.35	\$0.43	\$0.49	\$0.55	\$0.71	\$0.84	\$0.99	\$1.13	\$1.28	\$1.40
1/4		\$0.21	\$0.23	\$0.25	\$0.30	\$0.32	\$0.35	\$0.43	\$0.49	\$0.55	\$0.71	\$0.84	\$0.99	\$1.13	\$1.28	\$1.40
5/16			\$0.26	\$0.30	\$0.43	\$0.49	\$0.52	\$0.55	\$0.58	\$0.64	\$0.84	\$1.04	\$1.13	\$1.31	\$1.50	\$1.70
3/8				\$0.44	\$0.51	\$0.60	\$0.75	\$0.90	\$1.05	\$1.21	\$1.50	\$1.81	\$2.11	\$2.18	\$2.74	\$2.98
1/2						\$0.68	\$0.81	\$0.98	\$1.13	\$1.28	\$1.66	\$1.99	\$2.28	\$2.67	\$3.14	\$3.33
5/8							\$0.98	\$1.14	\$1.33	\$1.44	\$1.71	\$2.18	\$2.37	\$2.86	\$3.24	\$3.43
3/4								\$1.20	\$1.36	\$1.53	\$1.88	\$2.28	\$2.46	\$2.95	\$3.33	\$3.63
7/8									\$1.55	\$1.71	\$2.08	\$2.46	\$2.84	\$3.24	\$3.61	\$3.93
1										\$1.98	\$2.43	\$2.90	\$3.23	\$3.58	\$3.95	\$4.23

\* Prices shown are for lengths to 7 feet. Add 20% for lengths 7-10 feet and 35% for lengths over 10 feet. 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 stock random lengths of 3', 4', 5' & 6' unless otherwise specified.

# SPRUCE KITS FOR HOMEBUILTS



## AIRCRAFT SPRUCE'S FIRST HOMEBUILT

This Smith Mini Plane N1G was started in mid 1961 and was first flown on November 12, 1967 at Chino, California. It was built by Norm Ginn who operated a small company named Aircraft Spruce Co. selling spruce lumber in the early 1960's. In 1965, Norm sold the company name to Flo and Bob Irwin who began to build the business into what is today Aircraft Spruce & Specialty Company. Thus, N1G is the first homebuilt using materials from "Aircraft Spruce". Norm sold N1G in 1970, and today it is with its seventh owner in Texas. Norm Ginn is now retired and living in Albuquerque, New Mexico. He enjoys spending time with his sons and grandsons building and flying radio-controlled aircraft.



**AIRCRAFT SPRUCE & SPECIALTY CO.**  
**THE #1 SOURCE FOR SPRUCE SPARS & CAPSTRIP SINCE 1965. LOOK TO THE LEADER!**

### SPRUCE KITS

Our spruce kits are designed to encourage the builder to personally produce the components for his aircraft with a minimum of investment in shop equipment. A table saw is an asset, but an aircraft can be built completely with the use of only hand tools.

The complete kits listed below contain all the spruce required for the aircraft. Kits marked \*\* contain the wing and aileron spars finished to the net dimensions called out in the plans, without beveling. In all other kits the wing and aileron spars are S2S (surfaced two sides) spar stock that is to be cut to the finished pieces. The rib and stringer stock are supplied S2S to the net thickness required and are to be run through a table saw one way to produce the finished pieces. One board 1/4" thick x nominal 6" wide will yield about 16 pieces of finished 1/4 x 1/4 capstrip.

Without the use of a table saw, the builder should order only a Spar Kit, which includes the wing and aileron spars finished to net dimensions (unbeveled), then order the capstrip and milled stock as needed.

No plywood, glue, nails or other supplies are included in our spruce kits. All materials must be ordered individually as priced in this catalog.

Spruce kits are well packed, shipped by truck and insured for value by the carrier. Export orders are solicited. Prompt and efficient handling is assured.

Since all spruce is milled to individual requirements and cannot be stocked in finished condition, payment in full is requested with order.

**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**

### COMPLETE SPRUCE KITS

Acro Sport .....	P/N 02-03700	...\$494.12
Acro Sport II .....	02-03800	.....\$1,031.33
Baby Great Lakes .....	02-03900	.....\$616.15
Bobcat .....	02-25100	.....\$386.00
Bowers Fly Baby .....	02-25160	.....\$1,443.60
Christavia MK 1 .....	01-39810	.....\$1,020.46
Christavia MK 4 .....	01-39910	.....\$1,457.82
Corby Starlet CJ-1 (less spars) .....	02-04300	.....\$791.74
Cvjetkovic CA-65 .....	02-04400	.....\$1,640.88
Cygnet .....	02-04500	.....\$756.00
EAA Bi-Plane .....	02-04600	.....\$683.05
GN-1 Aircamper ** .....	02-04700	.....\$1,517.91
GP-4 .....	02-25200	.....\$2,892.50
Hatz Bi-Plane .....	02-04800	.....\$1,392.12
Kelly-D .....	02-04900	.....\$804.00
Mitchell B-10 .....	02-05000	.....\$267.00
<b>One Design .....</b>	<b>See Page 19 for Kits</b>	
Osprey II ** .....	02-05100	.....\$3,567.75
Pietenpol Aircamper .....	02-02500	.....\$1,076.66
Pitts Special (Basic) M-6 or S-1D .....	02-05200	.....\$974.88
Pober Pixie .....	02-05300	.....\$1,313.49
Rand KR-1 ** .....	02-05400	.....\$725.81
Rand KR-2 ** .....	02-05500	.....\$866.91
Rand KR-2S .....	02-05510	.....\$753.11
Rutan VariViggen .....	02-05600	.....\$435.00
Skybolt .....	02-05700	.....\$1,112.57
Smith Miniplane .....	02-05800	.....\$507.60
VP-1 .....	01-00222	.....\$523.35
VP-2 .....	02-08800	.....\$634.80
Volmer Sportsman VJ-22 (less wings) .....	02-06000	.....\$1,536.26
War Aircraft Corsair .....	02-06100	.....\$966.86
War Aircraft P-47 .....	02-06200	.....\$390.96
War Aircraft FW-190 .....	02-06300	.....\$675.00
War Aircraft Sea Fury .....	02-06400	.....\$564.00
Wittman Tailwind .....	02-06500	.....\$1,628.33

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

### SPAR KITS

Acro Sport .....	P/N 02-06600	..\$515.76
Acro Sport II .....	02-03810	.....\$535.65
Baby Great Lakes .....	02-06700	.....\$415.80
Bakeng Duce .....	02-06800	.....\$496.00
Barracuda .....	02-06900	.....\$672.35
Bowers Fly Baby (Spars) .....	02-07000	.....\$417.30
Bowers Complete Wing Kit .....	02-07100	.....\$932.08
Christavia MK 1 .....	01-39880	.....\$711.00
Christavia MK 4 .....	01-39980	.....\$1,457.82
Corby Starlet (Two Piece Wing Spar Kit) .....	02-09000	.....\$464.07
Cvjetkovic CA-65 .....	02-07300	.....\$789.00
EAA Bi-Plane .....	02-07400	.....\$366.00
Hatz Bi-Plane .....	02-07500	.....\$867.62
Kelly-D .....	02-07600	.....\$609.00
Marquart Charger .....	02-07700	.....\$760.90
Pitts Special M-6 or S-1D .....	02-07800	.....\$462.80
<b>One Design .....</b>	<b>See Page 19 for Kits</b>	
Sausser P6E .....	02-02000	.....\$884.90
Skybolt .....	02-07900	.....\$874.53
Smith Miniplane .....	02-08000	.....\$278.38
Stolp Starduster Single Place .....	02-08200	.....\$501.45
Starduster "Too" .....	02-08300	.....\$744.25
Starlet .....	02-08400	.....\$230.00
Wittman Tailwind .....	02-08500	.....\$326.13
Wittman "V" .....	02-08600	.....\$337.00

**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.

# PLYWOOD - NAILS

## 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.

WP

Thickness			90° Mahogany				90° Birch			
In.	Approx. MM.	No. of Plies	Approx. Wt. 4' x 8' Sheet	Part No.**	Price Per Sq. Ft.	4' x 8' Sheet	Approx. Wt. 4' x 8' Sheet	Part No.**	Price Per Sq. Ft.	4' x 8' Sheet
1/16 (.070)	1.5	3	6 Lbs.	02-189--	\$3.29	\$104.95	7 Lbs.	02-243--	\$3.04	\$86.75
3/32 (.100)	2.5	3	10 Lbs.	02-191--	3.90	\$126.95	12 Lbs.	02-244--	2.77	\$88.50
1/8 (.125)	3.2	3	12 Lbs.	02-193--	4.00	\$129.95	15 Lbs.	02-245--	2.82	\$89.75
3/16 (.190)	4.8	3-5	20 Lbs.	02-195--	6.15	\$190.95	24 Lbs.	02-246--	6.12	\$195.95
1/4 (.250)	6.4	5	25 Lbs.	02-197--	6.99	\$222.95	30 Lbs.	02-247--	7.46	\$237.95
5/16 (.312)	7.9	5	Lbs.	02-198--	7.51	\$228.95	30 Lbs.	02-251--	8.05	\$239.50
3/8 (.375)	9.5	5	Lbs.	02-199--	7.80	\$234.95	30 Lbs.	02-266--	8.30	\$231.00
7/16 (.437)	11.1	7	Lbs.	02-120--	8.95	\$269.95	30 Lbs.	02-267--	9.56	\$266.00
1/2 (.500)	12.7	7	Lbs.	02-121--	9.27	\$281.95	30 Lbs.	02-260--	9.74	\$286.95
			45° Mahogany				45° Birch			
1/16 (.070)	1.5	3	6 Lbs.	02-188--	5.74	\$183.95	7 Lbs.	02-248--	5.31	\$169.95
3/32 (.100)	2.5	3	10 Lbs.	02-190--	6.09	\$194.95	12 Lbs.	02-249--	4.74	\$168.95
1/8 (.125)	3.2	3	12 Lbs.	02-192--	6.65	\$212.95	15 Lbs.	02-250--	5.19	\$184.95

\*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)

Quality Birch aircraft grade plywood produced to German Lloyd specification GL-2 on all thicknesses. Copy of specification available.

Thickness			Half Sheet		Full Sheet	
Nom. Inch.	mm	Plies	Part No.	Price	Part No.	Price
1/64	0.4	3	02-20250	\$18.95	02-20200	\$37.90
1/32	0.8	3	02-20350	\$12.60	02-20300	\$25.20
3/64	1.0	3	02-50050	\$12.40	02-50000	\$24.80
1/16	1.5	3	02-20450	\$12.10	02-20400	\$24.20
3/32	2.5	3	02-20550	\$18.70	02-20500	\$37.40
1/8	3	3	02-20650	\$20.50	02-20600	\$41.00
3/16	5	5	02-20750	\$27.38	02-20700	\$54.75
1/4	6	5	02-20850	\$34.00	02-20800	\$68.00

Corby Starlet 2MM x 48" x 48" .....P/N 02-28050 ....\$23.90  
 1/4 Birch/Poplar 5ply, 45° .....P/N 02-27180 ..\$423.95



## 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 5mm to 6mm. Can be cut down for shipping. 5/32" thick x 4' x 8' sheet .....P/N 02-20100 .....\$31.40  
 1/4" thick x 4' x 8' sheet .....P/N 02-00076 .....\$17.30

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 5mm to 6mm. Can be cut down for shipping. 5/32" thick x 4' x 8' sheet .....P/N 02-20100 .....\$31.40  
 1/4" thick x 4' x 8' sheet .....P/N 02-00076 .....\$17.30

## 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.



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

Part No.	Size		Price		
	Length	Gauge	1/4 Lb.	1/2 Lb.	1 Lb
AN301-20-2	1/4"	20	\$2.11	\$4.23	\$9.30
AN301-20-516	5/16"	20	\$2.07	\$4.15	\$9.50
AN301-20-3	3/8"	20	\$1.89	\$3.78	\$8.90
AN301-20-4	1/2"	20	\$1.86	\$3.72	\$8.40
AN301-20-5	5/8"	20	\$1.86	\$3.72	\$8.50
AN301-20-6	3/4"	20	\$1.84	\$3.69	\$8.30
AN301-20-8	1"	20	\$1.53	\$3.07	\$10.10



## ROYAL MARINE A-A FIR PLYWOOD

First quality marine plywood meets or exceeds requirements of specification PS1-74. The 1/8" thickness is available in Mahogany only. All other thicknesses are Douglas Fir. Insist on A-A grade for your aircraft.

Thickness	No. of Plies	Part No.*	Price			
			2'x2'	2'x4'	4'x4'	4'x8'
1/4"	3	02-210--	\$7.83	\$15.06	\$30.13	\$60.25
3/8"	5	02-211--	\$8.78	\$16.88	\$33.75	\$67.50
1/2"	5	02-212--	\$12.16	\$23.38	\$46.75	\$93.50
5/8"	7	02-213--	\$12.45	\$23.94	\$47.88	\$95.75
3/4"	7	02-214--	\$16.76	\$32.24	\$64.48	\$128.95
1"	7	02-215--	\$20.27	\$38.99	\$77.98	\$155.95

\*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.

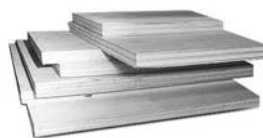


## BASSWOOD MIL-P-6070 AIRCRAFT PLYWOOD

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--	\$12.68	\$24.38	\$48.75	\$97.50
3/32"	3	02-254--	\$12.81	\$24.63	\$49.25	\$98.50
1/8"	3	02-255--	\$13.64	\$26.24	\$52.48	\$104.95
3/16"	3	02-256--	\$16.89	\$32.49	\$64.98	\$129.95
1/4"	5	02-257--	\$21.83	\$41.99	\$83.98	\$167.95
3/8"	5	02-261--	\$25.73	\$49.49	\$98.98	\$197.95
7/16"	7	02-262--	\$27.56	\$53.00	\$106.00	\$212.00
1/2"	7	02-263--	\$34.44	\$66.24	\$132.48	\$264.95
5/8"	9	02-265--	\$38.86	\$74.74	\$149.48	\$298.95
3/4"	9	02-264--	\$58.49	\$112.49	\$224.98	\$449.95

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.



## 1/4" BIRCH/BASSWOOD PLYWOOD

2X2.....P/N 02-27220 .....\$35.87  
 2X4.....P/N 02-27240 .....\$68.99  
 4X4.....P/N 02-27260 .....\$137.98  
 4X8.....P/N 02-27280 .....\$275.95

# BALSA – SPRUCE – GLUES

## 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. It comes in a handy concentric putty stick with the curing agent encapsulated in the contrasting color base material. The putty-like consistency eliminates drips and runs, producing "no mess" applications with no tools required for use. In order to achieve optimum adhesion, surfaces should be clean, dry and free of grease or dirt. Scuffing or sanding the surface prior to cleaning helps insure a good bond. 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. For woodworking and hobby model use, Bond-Aide P-1500W is unique as it can be shaped to conform to the surface. After 30 minutes, it becomes part of the wood but is many times stronger. Like wood it is light in weight, can be drilled, sawed, nailed, carved, machined, sanded, stained and painted, all within 30 minutes. It is non-toxic and is quickly and safely readied for application without any mess. It will not drip or sag, and unlike conventional wood putties, P-1500W will not dry out, even after opening. 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.....**\$13.85/ea**



## 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 home-built aircraft applications by Voyager Aircraft, Inc. & Rutan Aircraft Factory. They create a fast, permanent bond on many similar and dissimilar materials such as woods, metals & composite materials.

**HOT STUFF** – This glue has a water-like consistency and is used mainly for bonding parts which fit together well. Cures in 3-5 seconds. For best bonding, Hot Stuff requires maximum contact at the joint.

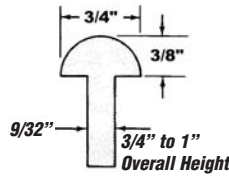
2 Oz. Bottle.....P/N 01-35500 .....**\$9.60**

**SUPER T** – This glue has a syrupy consistency and has the ability to fill small gaps between parts which do not fit together perfectly. Super T cures in 10- 25 seconds.

2 Oz. Bottle.....P/N 01-35600 .....**\$9.60**

**NOTE** – We now substitute NCF-2M for Hot Shot glue and NCF-5M for the refills. This new glue provides the same bonding qualities but is improved as it is non-toxic and odorless.

**ULTRA SUPER SOLVENT** – The fastest, easiest way to remove cured instant glue from fingers, work or clothes. Use with Hot Stuff or Super T. 2 Oz. bottle P/N 01-35800 .....**\$5.95**



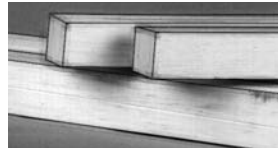
## "T" STRINGER STOCK

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

Lengths to 8 Ft. P/N 02-18400 **\$1.93/ft.**  
Longer Lengths .....**\$1.84/ft.**

WP

## 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 3" x 3 ft Pc. ....P/N 02-03500.....**\$11.50/ea.**

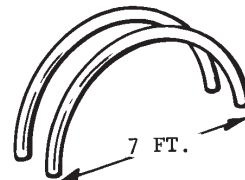
**ACTUAL SIZES OF BOARDS CAN VARY**

## TRIANGULAR CORNER BLOCKING



90° Corner Blocking  
Order by the foot.

Size	Price Part No.	Per Ft.	Size	Part No.	Price
1/4"	02-17600	\$0.08	1/2"	02-18000	\$0.08
5/16"	02-17700	\$0.08	5/8"	02-18100	\$0.16
3/8"	02-17800	\$0.50	3/4"	02-18200	\$0.16
7/16"	02-17900	\$0.61	7/8"	02-18300	\$0.24



## WING TIP BOWS

Preformed wooden wing tip bows for use in all Piper Aircraft Models J-3 to PA-22.  
P/N 02-18500 ...**\$29.50/ea.**

**Note:** Wing tip bows can be shipped via UPS with an oversized package rate equal to the 30 Lb. rate.

## 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

P/N 02-00101.....**\$12.85**

# 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. These features make it advantageous for use as a general marine and aircraft use. It provides strong bonds between many wood and non-wood surfaces. These 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 .....\$10.90
- Quart Kit (Qt A, 1/2lb B) .....P/N 02-00037 .....\$20.00
- Gallon Kit (Gal A, 2lbs B) .....P/N 02-00038 .....\$69.00



## FPL-16A HUGHES GLUE

This is an exceptionally fine two-part white epoxy glue for homebuilt and experimental aircraft. It is based on a formula developed by Forest Products Laboratories. It is excellent 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 .....\$41.70
- Gal Kit (1 gal resin, 16oz hardener, Wt.13 lbs) P/N 02-23500 .....\$92.50
- Hardener Only: 4 Oz. (for Qt. Kit) .....P/N 02-23600 .....\$14.40
- 16 Oz. (for Gal. Kit) .....P/N 02-23800 .....\$24.30



## HYSOL EA-9430 GLUE

This new and improved Hysol glue replaces the old 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.....\$49.90



## RESORCINOL GLUE

Resorcinol glue is a waterproof two-part system that meets or exceeds the requirements of MIL-A-46051 (Type 1, Grade A), (Type II, Grade C), & MIL-A-22397 (Grade A). It resists outdoor exposure, cold or boiling water, heat, molds, and solvents. Pot life: 3-4 hrs. Mix Ratio: 4 to 1 by weight. Excellent for use on wood structures. 1 pint....P/N 0227 .....\$22.75/ea

## 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 1 year shelf life. Forms flexible yet very strong bonds. Color:Gray.

- 2 oz. kit.....P/N 02-00045 .....\$27.50



## 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 ....\$17.60 Pt. Kit.....P/N 02-00047 ....\$22.95
- Qt. Kit.....P/N 02-00048 ....\$33.65 Gal. Kit....P/N 02-00049 ..\$113.95



## 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.

- P/N 02-00103 .....\$18.95



## GOOF-PROOF GLUE GUN FOR T-88 ADHESIVE

This 1:1 twin cartridge glue gun delivers mixed epoxy resin and hardener. The reusable/disposable cartridge offers 8 oz. capacity. Features include positive displacement plungers to assure precise 1:1 ratio, mixer tube that delivers perfectly blended, air-free epoxy, and the ability to store unused material in cartridge. Ideal for injecting delamination or dry rot. Does not include glue. Starter Kit .....P/N 02-90000.....\$77.50 (Includes Goof-Proof gun, 2 cartridges, 4 mixer tubes)

- Goof-Proof Gun .....P/N 02-90010 .....\$37.90
- Cartridge, 8 Oz. ....P/N 02-90020 .....\$9.70
- Mixer Tubes .....P/N 02-90030 .....\$2.55

## ALL-PURPOSE STRUCTURAL ADHESIVE



This structural adhesive is a unique two-part epoxy system with superior physical properties. Similar to the popular T-88 system, it permanently bonds or mends wood, metals, plastics, fiberglass and ceramics. Its exceptionally high peel strength makes it ideal for bonding dissimilar surfaces. Like the Safe-T-Poxy system, it is safe to use and has a low irritation potential. Mixing Ratio 1:1, Color: Light amber. Cures overnight, max. strength in 7 days (70°F). Gel Time (70°F): FE7004(Fast) 35min, #9922 (Slow) 2.5 hrs

- 1-PINT KITS: Fast Cure: .....P/N 02-00013 .....\$42.00
- Slow Cure: .....P/N 02-00012 .....\$19.85
- 1-QUART KITS: Fast Cure: .....P/N 02-00014 .....\$67.50
- Slow Cure: .....P/N 02-00010 .....\$19.85
- 2-QUART KITS: Fast Cure: .....P/N 02-00015 .....\$113.95
- Slow Cure: .....P/N 02-00009 .....\$49.60



## WELDWOOD GLUE

Weldwood Plastic Resin glue is a powdered, pre-catalyzed water-activated glue designed to provide strong, durable bonds for wood and wood products. Forms a bond stronger than the wood itself. Meets Fed. Spec A-A-3052.. Pot life: 4-5 hrs @ 70°, 2.5hrs @ 80°. Mix Ratio: 5 to 2 by volume. Resistant to fungi, bacteria, oil, gasoline & solvents.

- 1 Lb (6 per case) .....P/N 0203 .....\$6.75
- 5 Lb (4 per case) .....P/N 0204 .....\$23.95



## SYSTEM THREE PG-101 GLUE

PG-101 is a ready-to-use paintable sandable one-part polyurethane glue for wood, foam, concrete, marble, and most rigid surfaces. It is weatherproof and waterproof, gap-filling, solvent free, and fast curing.

- 1/2 pint (8 oz) Kit ....P/N 02-90065.....\$12.30/ea.
- 1 pint (16 oz) Kit ....P/N 02-90070.....\$18.70/ea.

# ADHESIVES

## 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 Number	Description	Wt. (lbs.)	Price
02-30005	1/2 pint Part B only	1.0	\$6.30
02-30015	1/2 quart part A only	3.0	\$32.90
02-30020	1/2 quart part B only	3.0	\$30.50
02-30025	ES6279 QUART KIT	6.0	\$63.40
02-30030	1/2 gallon part A only	12.0	\$96.50
02-30035	1/2 gallon part B only	12.0	\$83.00
02-30040	ES6279 GALLON KIT	24.0	\$179.50
02-30045	1/2 pail part A only	60.0	\$408.95
02-30050	1/2 pail part B only	60.0	\$351.95
02-30055	ES6279 PAIL KIT	120.0	\$760.90

## 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 Ambe; 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 .....\$39.90  
 Gallon Kit .....P/N 01-00296 .....\$153.95

## SLE-3012 A/B EPOXY ADHESIVE (REPLACES HEXCEL 9923)



SLE-3012 A/B is a two part epoxy adhesive which bonds well to dissimilar materials with different thermal expansion coefficients. Part A is a non-flow brownish paste to be mixed with a white part B semi-paste. (Fillers in part B may separate in storage. Remix to uniform consistency before each use.) The mix ratio of SLE-3012 is 1/1 by volume. The pot life of 100 grams of SLE-3012 A/B is 35-45 minutes @ 75°F. SLE-3012 A/B will cure in 3-5 days @ 75°F, or 2-3 hours @ 150°F. Pint Kit .....P/N 02-00043 .....\$59.85

minutes @ 75°F. SLE-3012 A/B will cure in 3-5 days @ 75°F, or 2-3 hours @ 150°F. Pint Kit .....P/N 02-00043 .....\$59.85

## 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.

Product Specifications	ES6228-A	ES6228-B	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

Quart Kit (4.5 lbs) .....P/N 01-00415 .....\$48.60  
 Gallon Kit (18 lbs) .....P/N 01-00414 .....\$164.95

## 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 .....\$31.00/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 .....\$29.90/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 .....\$26.70  
 Quart Kit.....P/N 02-30065 .....\$45.50

## METLWELD EPOXY ADHESIVE



MetlWeld ia 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 .....\$20.50  
 Pint Kit .....P/N 01-00407 .....\$45.50  
 Quart Kit.....P/N 01-00408 .....\$36.50

