

GRAPHITE – LAMINATING EPOXIES

CM

CARBON GRAPHITE YARN TOW



High strength (470,000 PSI) carbon fibers are used as reinforcement in high performance structural composites for aircraft applications, recreational and industrial products. Carbon fiber filaments are finer than a human hair. These filaments are bundled

together to make a fiber of 3,000, 6,000 or 12,000 filaments which is called a "tow". The tow is sized with an epoxy compatible material to improve the handling characteristics. It is then wound on a cardboard core holding from 4 to 6 pounds of fiber. 1 Lb. spool.

Actual Size	Part No.	Approx. Yield	Roll Size	Price/Spool
3K Tow	01-00343	2470 Yd./Lb.	4 Lb.	.
6K Tow	01-00307	1229 Yd./Lb.	1 Lb.	.
6K Tow	01-00955	1229 Yd./Lb.	1.5 Lb.	.
12K Tow	01-00345	621 Yd./Lb.	4 Lb.	.

It appears that the 6K tow will prove most practical for homebuilding applications. This size will be available in the small units shown. The 3K and 12K sizes are offered in full spools only. The 3K tow is used primarily by weavers. The 12K is difficult to wet out but can be done by diligent brushing.



S-GLASS ROVING FILAMENTS

This is the S-Glass Strand (roving) used by Rutan Aircraft Factory on the Defiant homebuilt kits. Also applicable to other homebuilt aircraft applications. Defiant requires four 15lb. rolls of S-Glass Strand.

One 15 Lb. Roll P/N 01-06400

KEVLAR 49 ROVING



Unidirectional Aramid fiber roving. Type 968, 7100 denier, comprised of five strands of 1420 denier. Used in the popular geodesic dacron kayaks and boats by Platt Monfort, this roving has a wide variety of applications.

300 Ft. Roll P/N 968

FOUR-MINUTE EPOXY



Epolet 9935 is a clear, 2 component room temperature curing easy-to-mix liquid epoxy system with a four minute gel time. It is an excellent adhesive for composite and wood applications, has very low shrinkage, and provides excellent machinability. Shelf life: 1 year.

P/N 01-07700

SYSTEM THREE QUIKFAIR EPOXY FAIRING PUTTY



Lightweight, micro ballooned filled, fast curing 2-part epoxy fairing putty with excellent moisture resistance. Use on both fiberglass and wood epoxy structures above or below the waterline. At 70° F it is sufficiently cured to be hand sanded in 3 hours or machine sanded in 4 hours. This allows you to apply 3 coats in a standard 8 hour shift or 6 in a round the clock basis. Complete a fairing or filleting job in a day rather than 3 or 4 days. NOTE: QuikFairs warm butter-like consistency makes it easy to measure by weight. Use care when measuring by volume as QuikFair does not self-level and may trap air pockets. As QuikFair is fast curing the working time is short. Mix no more than can be applied within 10 minutes.

24 oz. Kit P/N 01-00404

1-1/2 qt. Kit P/N 01-00405

EPOXY PREMIUM PIGMENTS



These Premium Pigments are a paste to tint polyester, vinyl ester, epoxy resin, and polyurethane. Add about 6% to 8% of pigment by weight or 1/2 pint of pigment per gal. of resin.

White - 1 oz. P/N 01-45308

White - 8 oz. P/N 01-45501

Black - 1 oz. P/N 01-45319

Black - 8 oz. P/N 01-45512

JEFFCO EPOXY LAMINATING SYSTEM



1307 Low Viscosity Resin / 3102 Fast Hardener - 100% solids 2-component epoxy laminating system with excellent wet out, low viscosity and high strength. Very low odor and toxicity. Easy to use, 4:1 weight or volumetric mixing, safe, fast curing products for a variety of use applications. Used for fast curing, penetrating wood coatings, adhesives and sealers, fiberglass laminating and microsphere filled fairing compounds. Excellent cold temperature cures down to 40°F. No solvents or VOC's. Non-hazardous, non-corrosive hardener.

3176 30-minute Medium R/T Epoxy Hardener - Fast setting, even in thin films. Good low temperature cure. Fast wetting of fiberglass reinforcements. Easy to use 4:1 mix ratio. High HDT at room temp, increasing with post cure. Low toxicity, very low odor. Non-hazmat.

Low Viscosity Laminating Resin

1307 LV, Pail (40 lbs)..... P/N 01-07917

1307 LV, Gallon (8 lbs)..... P/N 01-07914

Fast Hardener

3102, Pail (40 lbs)..... P/N 01-07920

3102, Gallon (8 lbs)..... P/N 01-07918

3102, Quart (2 lbs)..... P/N 01-07915

Medium Hardener

3176, Pail (40 lbs)..... P/N 01-07921

3176, Gallon (8 lbs)..... P/N 01-07922

3176, Quart (2 lbs)..... P/N 01-07923

KITS - Jeffco Epoxy, 1 gal. kit, fast..... P/N 01-07916

Jeffco Epoxy, 5 gal. kit, fast..... P/N 01-07919

Jeffco Epoxy, 1 gal. kit, medium.... P/N 01-07924

Jeffco Epoxy, 5 gal. kit, medium.... P/N 01-07925

AEROPOXY LIGHT PATCHING/FILLER COMPOUND



Aeropoxy Light, a modification of the ES6279 adhesive system, is a 2-component paste epoxy patching and filler compound for foam, wood, fiberglass and other surfaces. The mixed consistency of this system is very smooth and creamy, so it spreads easily, and can be spliced to a feather edge without separation. It is a thixotropic, non-sag material that will remain in place in thick sections, even when applied upside down! The resin and hardener of this system are color coded for easy mixing.

The resin is white and the hardener is brown, giving a good visual indication of complete mixing with a uniform tan color free of streaks. AEROPOXY LIGHT has special low density fillers incorporated into it that provide very distinct benefits. It is a very light material (4 pounds per gallon), and therefore contributes minimal added weight to the filled or repaired structure. Also, the cured material is very easy to sand, making the finished patch undetectable when covered or painted. There are no volatile ingredients in AEROPOXY LIGHT, so the cured material will not outgas, which could cause a loss of adhesion of paint or coverings. Sold in kits of part A & B.

1-1/2 lb. Kit..... P/N 02-30006

6 lb. Kit..... P/N 02-30007

IMPACT RESISTANT LAMINATING EPOXY



DLRH-3212 is an unfilled, clean epoxy resin system with a long pot life. DLRH-3212 is a tough, strong, impact resistant resin with chemical resistance. It has excellent wetting quality on kevlar, carbon graphite and fiberglass cloth. Used extensively in construction of aircraft, race cars, motorcycles, helmets and sports equipment. Mixing Ratio by Wt: 100:30; Pot Life (200 Gm MASS) 60 Min; Tensile Strength @ 25 C 12,500; Flexural Modulus @ 25 C 40,900; Heat Deflection 325 F; Thermal Shock 72°F-125°F; Shore "D": 80, Density: Resin: 9.7, Hardener: 7.9, Mixed: 9.1; Shelf Life: Resin/ Hardener 1 Year.

Qt Kit P/N 01-00430

Gal Kit P/N 01-00431

5 Gal Kit P/N 01-00432