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Subject: Epoxy laminating resin systems and mixing

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Status: Advisory

It is very important that proper ratios of resin /curing agent as well as proper mixing techniques be maintained and verified.

RESIN PUMPS:

The resin system of 862 & TETA requires a special resin pumping device. Due to the low viscosity of the TETA (a benefit when wetting out cloth), some pumps that may be adjusted to the proper basic ratio may not work since they may tend to gulp air and thus not deliver sufficient amounts of TETA. We stock the correct pump and we can not assure that second source products will work effectively and repeatedly.

One should periodically check the ratio of the pump used. First weigh you cup and note that weight. Then simply pump out, into separate cups, approximately 10 strokes from the pumping device. Weight them, subtract the weight of the cup and verify proper ratios. You'll need a good, accurate scale which reads in the 112 to 5 oz. range.

RESIN SYSTEMS:

We stock more than one resin system to support all customers. Resin systems can not be mixed, ie: do not use one resin with another systems curing agent. When you receive any resin, from any source, verify the type and mixing ratio before using.

Two commonly available high strength epoxy systems are:

“Safe-T-Poxy (or Epon) ratio by wt.: 44 pts. curing agent to 100 pts. resin

862 /TETA ratio by wt.: 16-18 pts. curing agent to 100 pts resin

(according to manufacturers, a ratio of $\pm 5\%$ is fully acceptable)

(These above systems can not be cross mixed)

So, regularly check your pumps and resin systems.