**EPOXY LAMINATING SYSTEMS**

**POLYESTER RESINS**

Polyester resins are hygroscopic (they draw moisture from the air). There are two types of resin, and one or both types may be required, depending on the application. Type "A" resin has a small amount of wax in it, which comes to the surface and forms a barrier against the moisture. This permits the resin to cure completely and the surface is hard and easily sanded. Bond Coat "B" resin does not have any wax content. As a result the surface stays a little tacky, as the surface cure is being inhibited by moisture. This tacky surface promotes excellent adhesion between coats. Bond Coat resin is therefore recommended for the first coat of resin to fill the weave of the glass cloth, for bonding fiberglass cloth to plywood or other surfaces and for multi-layers of glass cloth.

**TYPE "A" RESIN** - #1063-5 is a general purpose ortho surfacing resin intended for the finishing coat applied over the Bond Coat #1063-5, or for single coat application. A second coat may be applied after full cure and thorough sanding. Polyester Resin #699 Quart .........................P/N 01-00346 .........$61.75  5 Gal. #1520-5 with 4 Oz. Catalyst  ...............P/N 01-00348 .......$318.95

**TYPE "B" RESIN** - #1-253T-20 is a general purpose bond coat ortho surfacing resin intended for use in making multi laminates. It will not cure to a high gloss finish. Use 1-255-5 for finish coat to obtain smooth, hard gloss finish. Replaces #1063-5.

1 Gal. #L253T-20 with 1 Oz. Catalyst .................P/N 01-00349 .......$50.45  4 Oz. #L253-20 with 1 Oz. Catalyst .........................P/N 01-00350 ......$124.95

Additional catalyst may be required. 1 Oz. ....P/N 01-06900 .......$5.45

**MEKP NORAC CATALYST**

MEKP NORAC Catalyst Only (4 oz.) ...........................P/N 01-07325 .........................

1/2% 9 drops 18 drops 36 drops 2 cc 3.75 cc 5 cc

1% 18 drops 36 drops 2.5 cc 3.75 cc 5 cc

2% 36 drops 2.5 cc 5 cc 7.5 cc 10 cc

100:50 by weight H287 : H285 4 hours

H285-F Hardener (.25 gal/1 qt.) .......... P/N 01-41005.......

H340S Hardener (Slow) ..................... P/N 01-41106.......

H335F Hardener (.225 gal/0.9 qt.) ..... P/N 01-41105.......

H335F Hardener (Slow) ..................... P/N 01-41106.......

System 285 (Max. Tg 75 C - 80 C; 160 F - 200 F)

System 335  (Max. Tg 75 C - 80 C; 160 F - 200 F)

**VINYL ESTER RESIN**

"Note: 3 month shelf life from date of manufacture. We suggest ordering when you are ready to use."

Dow Chemical’s Derakane 411-350 PA Vinyl Ester Resin is a epoxy-based Vinyl ester designed to provide superior toughness and high corrosion resistance. Many leading kit aircraft manufacturers use vinyl ester resins extensively due to their quality and ease of fabrication. We furnish medium "promoted" vinyl ester resin #411-350 PA resin which includes CONAP, DMA the resin is cured by adding the MEKP which is furnished with the kit. Get times vary according to the amount of MEKP added and the ambient temperature. Shelf life of promoted vinyl ester resin is short at only a few months.

**MEDIUM PROMOTED:** Includes CONAP, DMA and other additives, Add MEKP for complete cure:

- Quart .........................P/N 01-01767 ..................$57.75
- Gallon  .......................P/N 01-07330 ..................$82.75

**Catalyst Concentration**

<table>
<thead>
<tr>
<th>1/2%</th>
<th>1%</th>
<th>1-1/2%</th>
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</thead>
<tbody>
<tr>
<td>9/16 oz</td>
<td>1/4 oz</td>
<td>1/2 oz</td>
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**Catalyst Large Quantity Chart**

<table>
<thead>
<tr>
<th>Catalyst Concentration</th>
<th>2 oz</th>
<th>4 oz</th>
<th>6 oz</th>
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<tbody>
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<td>1/2%</td>
<td>10 drops</td>
<td>18 drops</td>
<td>36 drops</td>
<td>48 drops</td>
</tr>
<tr>
<td>1%</td>
<td>14 drops</td>
<td>27 drops</td>
<td>54 drops</td>
<td>72 drops</td>
</tr>
<tr>
<td>1-1/2%</td>
<td>18 drops</td>
<td>36 drops</td>
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<td>96 drops</td>
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**WARNING:** Mekp Catalyst is very dangerous to the eyes. Always wear full protective goggle protection and have running water at hand when working with Mekp.

**SYSTEM 285 PRICES**

L28 Resin (1 Gal.) .........................P/N 01-41000 .......$142.50

H285F Hardener (.25 gal/1 qt.) .......... P/N 01-41005 .......$35.75

H287S Hardener (.25 gal/1 qt.) .......... P/N 01-41006 .......$35.75

H340S Hardener (Slow) ..................... P/N 01-41106 .......$33.85

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**Catalyst Small Quantity Chart**

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**SYSTEM 335 PRICES**

L335 Resin (Gal.) .........................P/N 01-41100 .......$99.75

H335F Hardener (.225 gal/0.9 qt.) .......... P/N 01-41105 .......$35.75

H340S Hardener (Slow) ..................... P/N 01-41106 .......$33.85

Two units of hardener are required for each gallon of resin.

**MGS EPOXY RESINS**

MGS epoxy resins are approved for the production of certificated aircraft parts. The 335 and 285 systems are especially suited for homebuilders because of their long shelf lives, excellent workability, physiological friendliness, adjustable cure rates and excellent static and dynamic strength characteristics. The 285 system is available with various fast and slow hardeners which can be blended with each other in any proportion to provide the desired working life and cure cycle. Pot lives and working times can be adjusted from fifteen minutes, using the fast hardeners, up to six hours, when the slow hardeners are employed. Once the hardeners have been blended, the specified resin to hardener mixing ratio must be maintained. The 335 System is available only with fast hardener. Components of the 355 system should not be mixed with those of the 285 system. With both systems, if only the slowest hardener is used, the cure times should be reduced by 25% and the pot lives increased by 25%.

**MGS EPOXY SYSTEMS**

**POLYESTER RESINS**

**SYSTEM 335**

L335 Resin (1 gal).........................P/N 01-41100 .......$99.75

H335F Hardener (.225 gal/0.9 qt.) .......... P/N 01-41105 .......$35.75

H340S Hardener (Slow) ..................... P/N 01-41106 .......$33.85

Two units of hardener are required for each gallon of resin.