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Service Bulletin 002-90

Subject: Fuel tank sealing in Lancair 235 and 320 wing tanks

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1. Lancair wing fuel tanks have demonstrated an acceptable seal through the use of multiple layers of laminating resin applied to the inner surfaces.
2. While it is commonly considered to be advantageous to use a secondary, flexible type of paint-in primer/sealer, we have experienced good results with careful applications of the laminating resin, also, many of the paint in type of sealers are not suitable with fuels containing alcohol such as could be found in some auto gas sources.
3. Typically two coats of resin is sufficient to seal the inner tank wall surfaces.
Sand surfaces with 50-80 grit and clean all surfaces well with acetone or preferably methylene chloride and observe all cleaner precautions carefully since both are quite toxic.
Allow the first coat to nearly cure (have only a slight tack remaining) before applying the second coat.
For added assurance of a no leak condition, a thin application of resin with fiberglass cloth (typically .003 thick bi-directional E-glass cloth) can first be applied to the upper and lower wing skin surfaces with one additional application of pure laminating resin over that after cure.