

EFX 500 Multi-Surface Fine Art Colorant Technical Bulletin

Reduce-Air

Jel'E Thickener

Pol'E TAC clear

500's – High solids opaque and transparent for hard surfaces

This product is re-soluble, meaning that water does to it the same as solvent thinner does to PU's or polyurethane prior to curing. Water based solubles remain just that, resolvable or "re-wettable". These colorants are ground to an ink with an outstanding base that contains most anything a person could ask for in a fine art product with Polyurethane performance characteristics in regards to flow and leveling as well as a quick drying rate (straight from the bottle) making it an exceptional choice for metals, wood, canvas, board and many other substrates.. EFX 500 is well suited to micron use and small orifice AB guns. The pigment themselves all have excellent UV/UVA ratings that are as high for their color range while maintaining an ASTM D 4236 compliance, The pigment come with bleed resistance to many solvent chemicals and strong alkaline materials as well as soaps.. EFX 500 is erasable with electric or hand held erasers and can be scratched through on clay board or masked over using low tack tapes or masks on metals or glass upon curing using heat to accelerate the cure.. All of our Special FX pigments live in this base, as it is a prime base for high solid drop-in color/FX pigment between our lines. An example would be to utilize the high solids pearl from EFX and add it to Private Stock not exceeding a 3 parts Private Stock to 1 part EFX ratio for any textiles that will be thermal set. On hard surfaces your options are unlimited as a urethane clear is suggested to lock the color for permanence and exterior durability and thermal setting for wash and wear would not apply at this point. We suggest always testing compatibility between solvents since surface tension between a cured solvent and a fresh (Hot) solvent may reactivate (soften) and create immediate or delayed crazing. Refer to Condition-Air on Private Stock Technical Bulletin (PDF) for specifics using Condition-Air with our products. The difference is delivering (2) products that work over a wide range, each having their own level of use where techniques by artists often are the dividing lines where function and performance meet. Application specific engineering to meet the growing demands of artists has always been the ETAC way of doing business.

Reduce-Air is to EFX 500 what Extend-Air is to Private Stock. It is an exceptional clear or translucent product that carries the EFX 500 line to infinite transparency without losing viscosity. To alter or change fluid viscosity we suggest using bottled filtered water in most cases, as distilled water is rather dry and can create drag on the colors being used when airbrushing is used. We have noted that some tap water is not suitable for mixing with our colorants due to chemical processing of water which leaves contaminants that alter the performance of our products. Always test before you embark into production with all products. Reduce-Air and EFX color harden when heated with a hair dryer, a heat gun is

more suitable where higher heat finalizes the cure where Pol'E TAC may be used as an inter-coat or barrier clear prior to final clearing with solvent if on metals. Masking may be done using painters mask and a plotter to plot or hand cut your designs as well as low tact taping methods or films. We suggest after eraser technique to use Pol'E TAC Clear to protect the under-lying color from damage due to water, or rough handling or oils from the skin. See Pol'E TAC Clear topcoat.

Jel'E Thickener is used to thicken either Private Stock or EFX. There are many uses for having a thickener that is controllable in the field of airbrushing. You can always dilute down but thickening back up has been problematic. Jel'E, when mixed with Private Stock opaques have been used for water based pin striping. Jel'E when mixed with EFX transparent has been used successfully for doing liner work with fine arts brushes as well as water color type washes on pH balanced board and paper.

Pol'E Tac Clear is a low solids nano particle material similar to our blend for Private Stock but functions differently and at different temperatures, as well as being basically a non-tact finish once fully cured using heat guns on metals to accelerate the cure. The suggested range would be between 275 – 300 degree's F or a lower heat setting over a longer period of time as time also works in conjunction with heat to cure this product at varying levels of heat without the use of catalysts or harsh chemical treatments. Pol'E TAC does not contain textile thermal setting materials and is uniquely different but share a kinship of using heat to cure the product. The use of a hair dryer for some techniques may be used to enhance or accelerate the cure process while working on board or canvas where speed is of concern. A heat gun would be detrimental to these types surfaces and is only suggested on metals. This water born product can be sprayed over artwork after eraser techniques have been employed or scratch through techniques to harden and help prevent re-wetting that normally would be a prerequisite for fine arts. For photo-realism and fine art a color must be soluble or "re-wettable" in order to obtain the finest possible results. Pol'E TAC's protective barrier is an excellent addition to our family of products and may also be used to dilute EFX with an addition of Reduce-Air to balance and control both viscosity and its chemical make-up, the choice is always yours, we provide the tools that help make what you do easier. Condition-Air may also be added to this product to slow drying time or alone with either Private Stock or EFX 500 as all our products were designed for integrating between the lines with each other. Pol'E TAC's elastomer material will help lock down EFX till you are ready to clear or final coat with a high quality solvent PU or clear for long term exterior protection. Many clears also contain added UV protection. Pol'E TAC dries to a crystal clear high gloss finish and is very similar in character to polyurethane, yet is a water-based product. All ETAC products utilize nano-chemistry with performance additives built in and come with ASTM D 4236 compliances for Non-Toxic conformance and performance.

EFX 500's are super fine particles that are processed via homogenization as well as dispersing equipment to prevent damage to some pigment particles.. They are done with timers and are processed twice-using different equipment each time and filtered. Each color is equally as impressive as the pigment range for Private Stock in regards to clarity, uniformity and brightness. In fact, the 500's are often said to be brighter due to the nano-range particles in relation to light and density, yet the transparent are clear while the opaque are opaque. This item also does not contain any filler materials, resins or any other contaminate product that reduces the potential of defining great color.

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