EJ-298
WAVESHIFTING PAINTS

These paints consist of a polyvinyltoluene (PVT) binder and fluorescent dopants dissolved in a xylene solvent. The blue fluorescent emission spectrum is presented below. The paint is nominally 20% solids by weight. Hence, one liter will cover approximately 0.33 square meter with a film 50 micrometers (0.002 inch) thick.

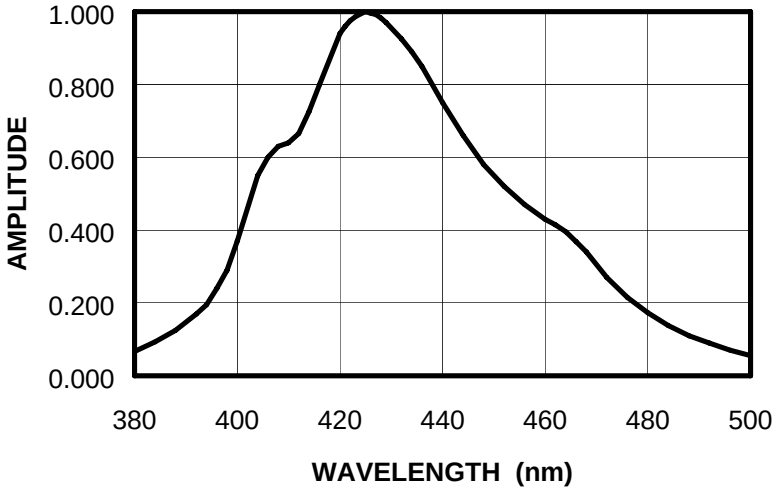
The paints may be applied to clean glass plates by brushing or by a draw-bar technique to produce a clear film. Adhesion is best when the painted substrate is well cleaned so as to be free of any invisible residues. The paints should be applied at room temperature or at a slightly elevated temperature for best results Multiple coats may be applied, but each successive coat should be kept thin in order to avoid softening of the dried layers beneath. These paints are potentially flammable and pose a mild inhalation hazard. Hence, they should be handled in a well ventilated working place and with care to their hazard potential. Consult the product MSDS. Application equipment may be cleaned with most general purpose commercial paint thinner.

Two blue-emitting formulas are offered which vary in regard to their UV sensitivity range. A 5 micrometer film has an optical density exceeding 80% over the wavelength range given for each type.

EJ-298-A Excitation Range: 320 – 370 nm
EJ-298-B Excitation Range: 300 – 370 nm

Chemical Compatibility: The dried paints are attacked by aromatic solvents, chlorinated solvents, ketones, solvent bonding cements, etc. They are stable in water, dilute acids and alkalis, lower alcohols and silicone greases.

EJ-298 BLUE EMISSION SPECTRUM



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