

Jeffrey D. Mathias  
jeffrey.d.mathias@att.net  
<http://jeffrey.d.mathias.home.att.net>

These two Pt/Pd prints on fabric show two possible results from different coating chemistry. I am trying to discover why there is a difference in depth and substance and how to produce more depth and substance with a cooler, bluer print.

The exposure and processing was identical:

Exposure:

12 minutes at 12" from UV lamps

Processing:

PO 1 min. (PO = potassium oxalate, saturated solution)

water 1 min.

SFR 6 min. (SFR = Sprint Fixer Remover mixed 1:9 with water)

SFR 6 min.

SFR 6 min.

water 2 min.

water 10 min.

The coatings were mixed and dried as follows (other details and corresponding metal solution concentrations may be found in my free on-line guide):

warm print:

26% FO 3.0 ml (FO = ferric oxalate and includes oxalic acid and EDTA as per guide)

Na<sub>2</sub>PdCl<sub>4</sub> 3.0 ml

1 drop of 1% potassium dichromate (contrast agent)

typical hot air drying ("bone dry", typically less than ambient RH)

ambient: 68F - 50% RH

cool print:

35% AFO 3.0 ml (AFO = ammonium ferric oxalate)

Li<sub>2</sub>PdCl<sub>4</sub> 2.6 ml

K<sub>2</sub>PtCl<sub>4</sub> 0.4 ml

wet drying as per guide (cool air to ambient RH)

ambient: 68F - 70% RH