



Berger Research Information

DyeSub direct printing on heavy fabrics

Problem: Dye Sublimation direct printing on heavy fabrics :

We experienced with printers like the d.gen Teleios (with integrated heaters or with no professional external calander) the following problem:

The heavier the fabric in weight (g/m^2), the more difficult the fixation of the ink gets. That means for example that a 330g/m^2 Polyester canvas what directly comes out of the "oven" with unsatisfying colours and not fixated ink particles can be rubbed of.

If too much ink is on the fabric, the wet ink can lay off on the transport rolls causing "ink spots" or "ghost writings" on the following prints.

This problem gets worse with "air-tide" fabrics (like blackout fabrics). These textiles reduce the air circulation in the heater. This effect is mostly seen on textiles heavier than $250\text{-}280\text{ g/m}^2$.

General solutions:

1. Calander the fabric after fixation in the integrated heater
2. Use minimum amount of ink
3. Reduce print speed
4. Use pre- and post-heaters of the printer to warm the fabric and dry the ink faster.

Products that can be effected:

| | |
|-----------|--------------------------|
| 3893-2665 | blackout directo FR +w |
| 4231-3 | art canvas 330 |
| 4231-6 | art canvas 330 FR +w |
| 4233-6 | microbacklight 260 Fr +w |

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August 2010

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