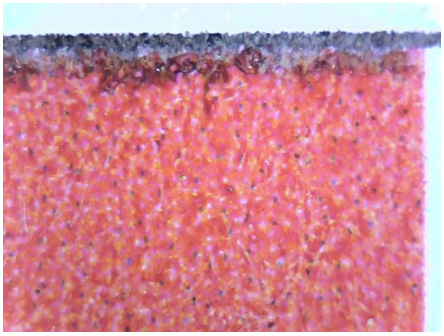
4-1 Ink Bleed and Wicking

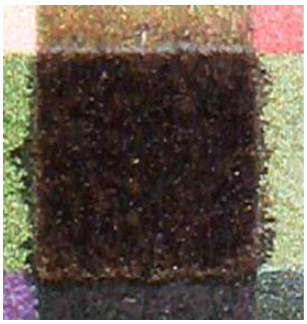
4-1-1 Bonding Agent Off

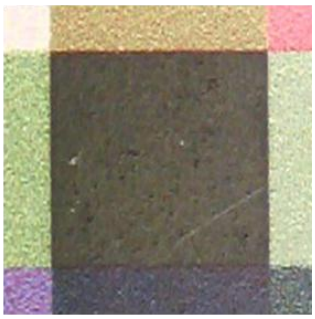
Symptoms and Possible Cause:

Recently printed ink bleeds/runs into other adjacent colors. This is especially noticeable near graphics and area fills. Recently printed ink may also wick/run into adjacent media that has no printed content. Bonding agent may be turned off which has allowed for uneven ink interactions with the media.

Images:







Figures 4-1-1-1 and 4-1-1-2: Color to color bleed. Image on right shows bleed and no bleed of same content. See also Figure 7-3-2 for a comparison of bonding agent off and on.

Actions:

- Check if bonding agent is turned on or off. Consider printing with bonding agent turned on.
- Consider using coated media with bonding agent turned off.
- Even with bonding agent on and working properly, bleed or wicking may still occur if there is simply too much ink being printed onto the media. Strongly consider using a lower density color profile for printing.

4-1-2 Bonding Agent Misaligned

Symptoms and Possible Cause:

Recently printed ink bleeds/runs into other adjacent colors. This is especially noticeable near graphics and area fills. Recently printed ink may also wick/run into adjacent media that has no printed content. Bonding agent may have poor alignment which has allowed for uneven ink interactions with the media.

Actions:

- Run a startup calibration and check alignment of bonding agent. Verify misalignment with images captured by the In-line Process Control Cameras. 'Apply updates' in the startup

calibration page graphical user interface. If the misalignment was very bad, consider running another startup calibration in addition to the first.

- Even with bonding agent on and working properly, bleed or wicking may still occur if there is simply too much ink being printed onto the media. Strongly consider using a lower density color profile for printing.

4-1-3 Poor Bonding Agent Nozzle Health

Symptoms and Possible Cause:

Recently printed ink bleeds/runs into other adjacent colors. This is especially noticeable near graphics and area fills. Recently printed ink may also wick/run into adjacent media that has no printed content. Bonding agent may have poor nozzle health which has allowed for uneven ink interactions with the media.

Images:

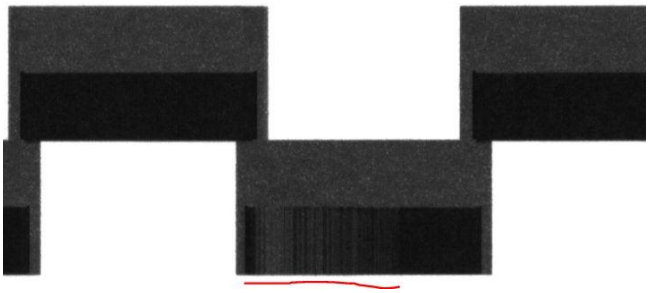


Figure 4-1-3: Poor bonding agent nozzle health in bonding agent nozzle health plot

Actions:

- Check nozzle health of bonding agent with the images captured by the In-line Process Control cameras during a startup calibration. This must be done manually because the cameras are unable to read and report nozzle health for bonding agent. Run a Service Routine on the printheads. Replace any bonding agent printheads with unacceptable nozzle health.
- Check Ink Delivery System bonding agent components and lines for leaks, kinks, or blocks. Clean, service, and repair as required.

⚠ WARNING: Do not cross contaminate bonding agent with ink while cleaning. Use separate wipes and gloves for bonding agent and inks.

- Even with bonding agent on and working properly, bleed or wicking may still occur if there is simply too much ink being printed onto the media. Strongly consider using a lower density color profile for printing.