

Kodak Approval Digital Color Imaging System

Product Information Sheet – APPR-001.0
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Printing a Spot Gloss Varnish

A spot gloss varnish refers to the selective application of a varnish, UV ink, or other gloss-enhancing finish to select areas of the printed piece. When applied, the selected image area has a higher gloss level than the unvarnished image areas and appears smoother than the surface of the ink/paper combination that it overprints. Gloss varnished images appear sharper because the light reflected through the clear varnish film reaches the eye with little diffusion.

This printing technique can:

- Give affected areas or images an illusion of depth.
- Show different surface characteristics of objects in the image.
- Bring attention to a specific area.
- Highlight text.

The Challenge of Proofing a Spot Gloss Varnish

Traditionally, there have been limited choices in proofing spot gloss varnishes. The most common technique is to create an additional single color separation to be imaged on a clear overlay. This overlay is taped to the hardcopy color proof showing the printer or print buyer the path of the spot gloss varnish. This technique requires multiple steps and does not show the true proof appearance of the spot gloss varnish.

The Solution to Proofing a Spot Gloss Varnish

Traditionally, the white donor (DW01) for the **Kodak Approval** digital color imaging system has been used in packaging and publications as an opaque white overprint.



Types of Kodak Approval system proofs incorporating white donor

Kodak



Now using the same white donor, as the last color in the lay down order, various levels of varnish can be simulated as an integrated component of the imaged proof.

This technique further shows the **Kodak Approval** system's ability to simulate the varying printing characteristics of the printed piece. It does not require the labor-intensive techniques used in the past and will further add value to proofs from the **Kodak Approval** system.

Procedure for Simulating a Spot Gloss Varnish using the Kodak Approval System

This procedure describes the method of simulating a spot varnish when producing a proof with the **Kodak Approval** system. By applying single or multiple passes using the white donor (DW01), varying levels of gloss can be simulated.

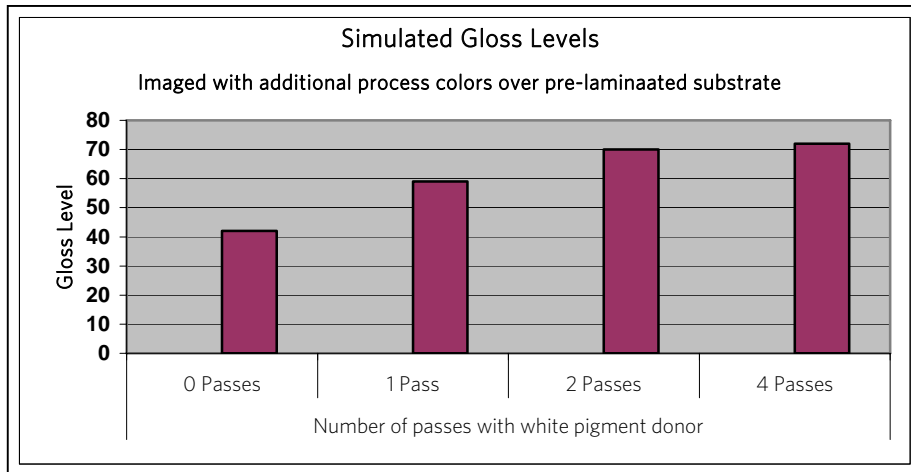
To create an **Approval** system proof that shows this effect:

- The separation that is used to create the spot varnish plate should be defined as a recipe containing the special white donor (DW01).
- This separation must be the last color in the lay down order.
 - For example, a file containing Cyan, Magenta, Yellow, Black, and a Spot Varnish should have a recipe defined for the 'Spot Varnish' that contains the donor 'White DW01'.
- The spot varnish plate (or white donor) should then be defined as the last color down in the lay down order.
- Regardless of the spot color name, the recipe is defined using white donor (DW01; #1670) at a click setting of 65.

The resulting proof consists of matte image areas with a higher level of glossiness in the selected areas to which the white pigment had been applied and proofed last. The selected areas exhibit the color of the dye image, and the color is not significantly changed by the presence of the white pigment. The glossy areas of the proof image provide an excellent match for an on-press spot varnish.



The chart below demonstrates the simulated gloss level as it relates to the number of passes of white donor (DW01) imaged with process colors on a pre-laminated substrate.



Production Notes:

- Please refer to the procedures specific to each appropriate digital front end for changing lay down order.
- Follow the standard procedure for lamination onto a paper substrate.
- Additional in-house testing may be required for applying to a customer's individual substrate.
- Some board stocks may require a slower speed setting in order to achieve proper transfer.
- Better results are achieved when the intermediate is removed from the paper during image transfer in a slow and deliberate manner.
- Depending on the substrate being used, the white donor underlay may affect color in areas containing a spot varnish.

White Donor Part Numbers

Description	Part Number	# of Proofs Per Roll	Size of Roll
DW01 - White Opaque Donor	812-9231	75	732mm x 46m
DW01 - White Opaque Donor	119-9538	75	394mm x 46m