



ESSE® PEARLIZED PAPERS PRODUCTION TIPS

ESSE® Pearlized Papers are easy to print on when following these simple tips. It is recommended to pretest all printing procedures prior to press time to ensure the desired results are achieved. Sample sheets are available through authorized Neenah merchants or by contacting our sample department at 800-994-5993.

Storage/Handling: Papers need to acclimate to pressroom conditions at least 24 hours before opening. Pressroom humidity should be in a range of 40-55% at 70-75°F. Once open, rewrap unused product.

Prepress: Imagery should be adjusted in prepress to compensate for the additional 5-15% tone value increase that will occur. The precise amount of under color removal is image-specific. Total area coverage should be kept under the 260% range. In general, 150-200 lpi screen ruling is recommended.

Inks: The use of fully oxidizing inks is necessary. ESSE® Pearlized Papers have been sealed with a coating and therefore have a totally non-absorbent surface. Your ink supplier is the best resource. Density targets of K-1.3, C-1.15, M-1.15, Y-0.90 are recommended.

Printing: Maintain a fountain solution pH balance between 4 and 6 and run water at absolute minimal levels, even to the point of ink scumming. For lower print coverage we recommend ink consumption strips on press. Use a 20/30 micron spray powder for two-sided printing and 40/50 micron spray powder for single sided printing. Small lifts (not to exceed 4" in height and may require less pile height depending on the amount of ink coverage), and additional drying time are necessary prior to other converting steps. It is normal for a minimal amount of surface coating particles to transfer to the printing blankets. However, they should not impede with print production and are cleaned effectively with typical blanket washing devices. The unique pearlized surface will be visible through the printed image. Visible pearlized particles, may contrast with heavy dark solid areas. Pretesting is recommended to achieve desired results. The use of infrared heating on press may retard ink-drying; however, UV PRINTING and HEAT SET WEB PRINTING present no issues.

Varnish: If the printed piece requires a varnish, an off line fully oxidizing varnish is recommended. It will not enhance the pearlized appearance and in some cases it may alter the pearlizing effect. Pretesting is recommended to achieve desired results.

Aqueous Coating: Aqueous coating is the preferred method of a surface protector (versus varnish); however, it can tend to lessen the special effects of the pearlizing. Most printers will only use aqueous coating on heavier weight stocks and only with a special formulation for uncoated papers to avoid possible paper curl. Pretesting is necessary.

Folding/Scoring: A letterpress channel score parallel to the grain direction with a minimum width of 2.5 times the caliper of the stock to be scored is recommended.

Foil Stamping: Foils compatible with non-porous substrates are recommended. Pretest to determine the proper foil, heat conditions and pressure required for best results.



ESSE[®] PEARLIZED PAPERS PRODUCTION TIPS (Continued)

Laser/Ink Jet: ESSE[®] Pearlized Papers are suitable for laser and monochrome ink jet printing. However, consideration should be given to equipment paper weight restrictions and pretesting for optimal print results is recommended.

Trimming: Use a sharp knife with minimum clamp pressure. To achieve a clean edge, back trimming is important. Wipe the newly cut edge with a clean, lint-free cloth.

Binding: ESSE[®] Pearlized Papers are suitable for all standard binding processes. Binding should be parallel to the grain direction. PUR adhesives may be required. Pretest for best results.

Note: *These production tips should be used as general guidelines and are not inclusive of all printing and finishing methods. Neenah recommends always pretesting for desired results prior to full production.*