

Horizontal Print Banding

Problem	Explanation
Hairline horizontal banding (<0.5mm) or 'fuzzy' text	Poor nozzle alignment. Check the test print for each colour and run a nozzle clean if necessary. Solid colours should print solid!
Fine horizontal banding (1 - 8mm at consistent spacing)	Incorrect profile or incorrect media calibration settings. Check the profile. Too much ink too fast, ie: block colours on high speed settings. Check the media calibration. Try printing uni-directional. Exaggerated at each side of the roll when printing bi directional.
Wide horizontal banding (Approx 100 to 300mm at edges of print)	Media bruising. This appears as watermarks, generally at the edges of the roll. Caused by the media being rested on the aluminium bars (which sag and hence put more pressure at the ends) or stored on its side.

Vertical Print Banding

Problem	Explanation
Banding along the length of the print, inconsistent solid colours	Poor heater operation or heater settings. Poor heater operation can cause variability of ink saturation across the roll. If the media is too hot then it will visibly ripple or pickup the pattern of the plinth.

Print Quality Issues

Problem	Explanation
Specks in print	White specks caused by ink contamination or metal dust off printer. Specks with dark centres caused by airborne contamination. Remove any potentially contaminated layers of media, check for visible contamination and feed again.
Poor colour accuracy	Incorrect profiling. If it is a profiling problem check to see if any other problems are evident
Poor fine definition	Media calibration, Poor file 'image rendering' or 'image sampling'. Some image quality problems can find their origins in the original file (image rendering); or the way it was edited, (image sampling). It is far better to start with a high quality file than to print a poor file at high resolution.

Ink Pooling and Drying Problems

Problem	Explanation
Poor print quality at the edges of the roll	Too much ink too fast particularly printing bi-directional. Check the profile. It can be possible to reduce the problem by reducing the print speed or running the print uni-directional.
Ink pooling or 'mottling', (Mainly solid colours)	Incorrect profiling, heater settings, roll too cold. Generally caused by the printer delivering too much ink onto the media. Also, check the roll is at room temperature.
Ink does not dry off, material becomes very soft when printed, adhesive becomes weak	Incorrect profiles, incorrect heater settings, can occur particularly with high resolution images. This will be either due to excessive ink being delivered to the media, i.e: incorrect profiles, or excessive solvents retained in the print, i.e: insufficient heat. Can be particularly profound on high resolution prints employing alot of ink.

Digital Vinyl is lifting after Application

Problem	Explanation
Edge curl or lifting	This is a common problem when cutting flush into the print on solvent prints, and print and cut labels. For print and cut applications Metamark MD-P overcomes most of these problems. Alternatively allow 24 hours after printing and before cutting, or allow a border around the image
Vinyl is delaminating from surface	Excess Solvents, surface contamination, material stressed. Follow the recommended guidelines for surface preparation and application of media. When applying calendered films avoid stressing them during application.
Vehicle Wrap - vinyl is lifting or bubbling after some time	Incorrect application or installation. Successful wrapping of vehicles requires skilled installation. Metamark offers some guidelines for care and handling and installation.

Please Note: The above data is given in good faith to provide an indication of the performance of the product. Purchasers should consider the suitability of each product for its intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product nor for incidental nor consequential loss.