



### UMS - Universal Mild Solvent Inks

The Universal Mild Solvent inks - UMS - are Mutoh's 4th generation of mild solvent inks, specifically formulated for Mutoh's roll-to-roll sign & display wide format printer portfolio. Free from hazardous air pollutants, the inks help creating a safer operator environment. Mutoh UMS inks are a perfect choice for long term outdoor and indoor commercial graphics.

Available in liter packs for use with Mutoh's proprietary ink pack adapters or ink cases and in 440 ml cassettes, the C, M, Y, K UMS inks offer an outdoor UV resistance of up to three years without lamination\*. They are virtually odour-free and do not require any forced ventilation. They offer an unrivalled colour gamut and a unique media gloss preservation. The inks cover 83 % of the Pantone C® colour chart, which is unrivalled for a four colour ink set. Suited for both high quality and high speed printing, UMS inks are fixed and dried at regular heating temperatures\*\*.

### Product Highlights

- C, M, Y, K - 1 liter packs and 440 ml cassettes
- Innovative ink chemistry : highly durable colour pigments, new blend of milder and non-aggressive solvents & multi-resin mix
- Covering 83 % of the Pantone C® colour chart
- Virtually odourless in the print environment – no need for forced ventilation
- For long term outdoor and indoor commercial graphics
- Outdoor UV resistance of up to 3 years without lamination\*
- Suited for high quality and high speed printing
- Wide media compatibility with uncoated & coated substrates
- Formulated for Mutoh's entire sign & display printer range



\* For heavy duty applications where mechanical stress is involved (floor, vehicle and marine graphics) or repeated exposure to chemicals, lamination is required. Stabilisation is required prior to lamination.

\*\* Some media will show a slower drying profile. To accelerate drying, infra red heating combined with a gentle airflow is recommended.



CMYK



Piezo Variable Drop



Outdoor / Indoor



Environmentally Responsible



Cost Effective



### Technology

UMS inks consist of highly durable colour pigments grinded to nano-size level ( $\approx 150$  nm), a new blend of milder and non-aggressive solvents and a new mix of resins. The resin mix will enable optimum adhesion of the pigments to the substrate and create a uniform and smooth ink layer. Each individual colour pigment is moreover encapsulated by the resin mix, to optimally address the typical requirements of outdoor sign & display prints (gloss preservation, scuff, abrasion & chemical resistance) and to safeguard long-term outdoor durability of the colour pigments.

### Application Possibilities

UMS inks will create durable prints on coated and uncoated substrates and have been specifically developed for high quality volume production of sign & display graphics, for long-term outdoor applications as well as durable prints for indoor use : posters, backlit signage, fine art reproduction, vehicle and object wraps, stickers, banners, wall coverings, POS displays, billboards, building announcements and much more.



#### UMS - Ink Volumes & Printer Compatibility

|   |   |
|---|---|
| XpertJet 1641SR - 1625 mm - 64" - single head | 1 litre ink packs - CMYK                        |
| XpertJet 1682SR - 1625 mm - 64" - dual head   | 1 litre ink packs - 2 x CMYK                    |
| ValueJet 1324X - 1371 mm - 54" - single head  | 1 litre ink packs - CMYK                        |
| ValueJet 1604X - 1625 mm - 64" - single head  | 1 litre ink packs - CMYK                        |
| ValueJet 2638X - 2600 mm - 102" - dual head   | 1 litre ink packs - 440 ml cassettes - 2 x CMYK |



XPJ-1641SR



XPJ-1682SR



VJ-1324X



VJ-1604X



VJ-2638X

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