Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2018 AKD - Water AKD - 80%Water/20%Glycerin AKD - 80%Water/20%Glycol AKD - 50%Water/40%Glycerin/10%HD AKD - 60%Water/30%Glycerin/4%Hexanediol/6%Diacetonalcohol AKD - dye ink yellow AKD - dye ink magenta ★AKD - pigment ink yellow +AKD - pigment ink magenta AKD - latex pigment ink yellow AKD - latex pigment ink magenta Unsized - Water Unsized - 80%Water/20%Glycerin Unsized - 80%Water/20%Glycol Unsized - 50%Water/40%Glycerin/10%Hexanediol Unsized - 60%Water/30%Glycerin/4%Hexanediol/6%Diacetonalcohol Unsized - dye ink yellow Unsized - dye ink magenta Unsized - pigment ink yellow +Unsized - pigment ink magenta Unsized - latex pigment ink yellow Unsized - latex pigment ink magenta Pigmented - Water Pigmented - 80%Water/20%Glycerin Pigmented - 80%Water/20%Glycol Pigmented - 50%Water/40%Glycerin/10%Hexanediol Pigmented - 60%Water/30%Glycerin/4%Hexanediol/6%Diacetonalcohol Pigmented - dye ink yellow Pigmented - dye ink magenta →Pigmented - pigment ink yellow +Pigmented - pigment ink magenta Pigmented - latex pigment ink yellow Pigmented - latex pigment ink magenta ◆Unsized & Untreated - 50%Water/40%Glycerin/10%Hexandiol ►Unsized & Untreated - 60%Water/30%Glycerin/4%Hexanediol/6%Diacetonalcohol Unsized & Untreated - dye ink yellow ◆Unsized & Untreated - dye ink magenta +Unsized & Untreated - pigment ink magenta Unsized & Untreated - latex pigment ink yellow

Unsized & Untreated - latex pigment ink magenta