

## SCREEN PRINTING INKS FOR PAPER AND OTHER SUBSTRATES

### AQUATONE™



Yellow GS



Yellow RS



Orange



Red YS



Blue



Violet



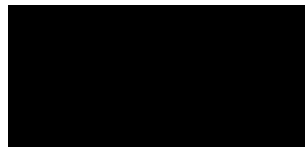
Magenta



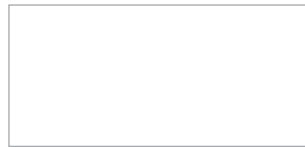
Red BS



Green



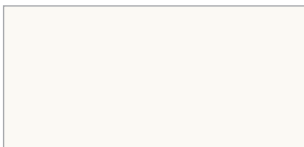
Black



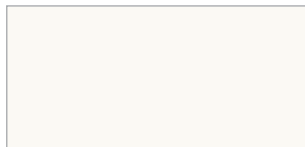
White



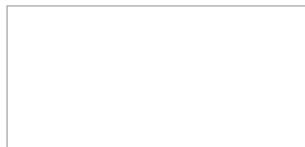
Extender



Clear (Gloss Varnish)



Matting Agent



Opaque White

### GLOW\*



Glow Yellow



Glow Green



Glow Orange



Glow Blue



Glow Red



Glow Violet



Glow Pink



Glow Magenta

### PROCESS



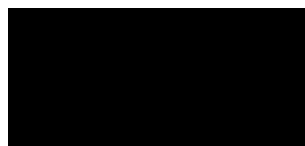
Process Yellow



Process Magenta



Process Cyan

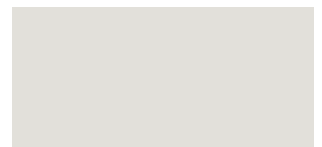


Process Black

### METALLIC



Pearl White



Pearl Silver



Pearl Gold



Pearl Copper

# Permaprint Premium



Drying	Thinning & Wash-up	Mesh Range	Stencil Type	Coverage & Mesh	Applications	Substrates	Colour Range
<p>For optimum fastness <b>PERMAPRINT PREMIUM</b> should be air dried, or may be jet dried at maximum airflow.</p> <p>If drying in the screen, add 1-2% <b>PERMASET® Print Retarder</b>.</p>	<p>If necessary, thin with up to 1-3% water.</p> <p>Wash screens out with water &amp; detergent.</p> <p>Dried in ink may be washed out with conventional or eco-friendly screenwash.</p>	<p>Monofilament Polyester 32-120T (83-305 tpi) depending on application for <b>PERMAPRINT PREMIUM</b> Standard, Glow and Process colours.</p> <p>34-100T (85-255 tpi) for Metallic Pearl colours, Opaque White &amp; Matting Agent.</p> <p>Nylon mesh is NOT recommended. It is water sensitive and screen tensions can be affected by water-based inks. Polyester mesh is recommended.</p>	<p>MUST be water resistant, fully dried and cured.</p> <p><b>Emulsion:</b> Recommend: <b>KIWO POLYCOL® MULTI-TEX / VERSA-TEX™</b> or <b>Fujifilm Dirasol® 916</b> or <b>ULANO® 925WR</b> or <b>Chromaline® CP-TEX™</b> or <b>MacDermid Autotype PLUS 6000</b> or <b>Murakami TXR®/T9</b>.</p>	<p>15-21 m<sup>2</sup>/L with 62T mesh.</p> <p>612-857 square feet per gallon with 155 tpi mesh.</p>	<p>High lay-down hand printed wallpaper &amp; art reproduction, through to skateboards, stickers, posters &amp; backlit displays.</p> <p>Packaging, wrapping paper, notebooks and book covers, cork mats and coasters.</p>	<p>Sealed paper, cardboard, Tyvek®, polyesters (Mylar®), polycarbonates (Lexan®), some coated metals, polystyrene, PMMA (Perspex®), Corflute® / Coroplast®.</p> <p>Care should be taken with some vinyls as plasticizer migration may soften the ink over time.</p> <p>Care should also be taken with some uncoated papers as cockling may occur.</p>	<p><b>9 AQUATONE Colours + AQUATONE Black, White + Extender.</b></p> <p>Opaque White, Clear (Gloss Varnish) + Matting Agent.</p> <p>Process set (CMY+K), 8 Glow + 4 Pearl colours.</p>
<p><b>Properties</b></p> <p>Screen printing inks for paper and other substrates. Satin/Gloss Finish. Solvent-free. Low odour. Intermixable, light fast,* non-bleeding colours.</p>				<p><b>Product Resistance</b></p> <p>After air dry, prints exhibit very good water resistance.</p>			

## PRINTING

Screen meshes of 32-120T (83-305 tpi) monofilament polyester are suitable for most **PERMAPRINT Premium** applications. Ensure that there is adequate ink on the screen for an even print. Between prints, ensure that ink is flooded over the entire image area to prevent drying-in. Ensure that screen emulsions and blockout are water-resistant and fully cured.

**IMPORTANT:** When printing with **PERMAPRINT Premium**, it is essential to flood the image area after lifting the screen following each print stroke. Thin deposits of ink retained in the mesh will dry very fast. By flooding straight away, fresh ink will wet out these deposits and prevent premature drying in.

**Mesh:** **PERMAPRINT Premium** is used commercially with mesh counts ranging from 32T metric (83 tpi) for high lay down on hand printed wallpaper and art reproduction through to 120T (305 tpi) on applications such as stickers, posters and backlit displays where maximum detail and transparency is required. General purpose work is best with meshes from 77T (195 tpi) to 100T (255 tpi). Polyester mesh is recommended as nylon is water sensitive and screen tensions can be affected with water-based inks.

**Squeegee:** Sharp square urethane squeegees from 55 to 75 Shore hardness are recommended for best image reproduction.

**Stencil:** Water resistant stencils are essential with **PERMAPRINT Premium**. Dual cure direct emulsions such as **KIWO POLYCOL® MULTI-TEX / VERSA-TEX™**, **ULANO® 925WR**, **MacDermid Autotype Plus 6000**, **Murakami TXR®/T9** or **Fujifilm Dirasol® 916** are recommended for long runs and maximum print resolution. Care should be taken to ensure that stencils are properly dried and exposed. Under-exposure will render most direct emulsions sensitive to premature breakdown with water-based inks.

**Drying:** **PERMAPRINT Premium** inks can be rack or jet-air dried and are also suitable for R.F. or Microwave dryers. **PERMAPRINT Premium** dries by simple evaporation over 20-30 minutes, depending on ambient temperature and humidity or can be jet dried at 65-75°C (149-167°F) for approximately 30-45 seconds using maximum air flow. In the case of porous

substrates, drying is aided by absorption. Drying rates in all cases will be affected by ink thickness. Testing under print shop conditions on common substrates is recommended before commencing any production print run. Ensure that adequate ventilation is provided during drying and that cooling is allowed before stacking to prevent blocking problems.

Whilst the information above is a guide, any heating schedule used should be chosen to suit the heat resistance of the substrate being printed. Care must be taken with IR dryers. When printing on synthetic substrates, lower temperatures and longer drying times are recommended. If your drying conditions fall outside these recommendations, please contact your local representative for technical assistance.

Any drying temperature guidelines quoted above are recommendations for ink deposit temperatures, not dryer temperatures. This should be checked with temperature strips or IR gun to ensure the appropriate temperatures are achieved.

\*All Glow colours exhibit diminished light fastness, particularly in direct sunlight.

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**PERMASET, PERMATONE, PERMAPRINT PREMIUM and AQUATONE** inks are manufactured by:

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44 Orchard Rd Brookvale NSW 2100 Australia  
Phone: +61 2 9939 7977 or Fax: +61 2 9939 6685  
www.permaset.com.au • email: info@permaset.com.au



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