



With 50 years of manufacturing experience, Permaset is recognised both by the professional printing trade and the fine artist as the premium producer of textile screen printing inks. Our great heritage continues with a dynamic reengineering of our successful line of quality textile inks. In keeping with this heritage of industry leading products, we have developed a totally water-based textile-printing product with superior performance that eliminates the trade-off between softness and durability.

The development of Permaset Aqua represents a revolution in textile screen printing inks. By using advanced polymer technology combined with the purest pigments in a 100% solvent free base, the unique formula of Permaset Aqua offers an environmentally friendly, easy-to-use ink that provides an unsurpassed balance of softness and durability to wash, rub and dry-clean, eliminating the need for additives, together with excellent colour brightness.

Permaset Aqua is a ready to use, 100% solvent free water-based textile ink, designed for direct wet-on-wet printing on a wide range of natural and synthetic fabrics. The environmentally friendly formula provides intense pigment colour that is rich in coverage and produces exceptional colour yield. The resilient base holds fast during rub, wash or dry-clean while having virtually no handle on the printed fabric.

As a water-based product, Permaset Aqua is low odour and equipment is easily cleaned with water. After heat curing, prints exhibit excellent wash, rub and dry-clean resistance. Permaset Aqua performs at a higher standard with enhanced screen stability allowing exceptional screen open time, to allow cleaner results, longer.

Ideal for use on cotton, polyester, blends, silk and most synthetic fibres. A first rate innovation, Permaset Aqua is the perfect textile printing ink for the broadest range of textile applications.

**Important: Stir well before use.
Compatibility with all substrates must be checked before commencing a production run.**

Main Characteristics

Drying	Thinning & Wash-up	Mesh Range	Stencil Type	Coverage & Mesh	Applications	Fabrics
For optimum fastness Permaset Aqua should be heat cured.	If necessary, thin with up to 5% water. Dried in ink may be washed out with Sericol CPS KA or A8 Screenwash.	Monofilament. 43-120T (110-305 tpi) depending on application for standard and process colours. 34-100T (85-255 tpi) depending on application for SuperCover Metallic, Puff and Phosphorescent Green.	MUST be water resistant, fully dried and cured. Check first! Emulsion: Recommend: Sericol Dirasol 916 or KIWO Polyplus SRX or ULANO LX-660 or CHROMALINE CP-TEX	15-21m ² /L with 62T (155 tpi) mesh. 43-60sq ft/US gallon	T-Shirts, Flags, Banners. Sports and Fashion Wear. Scarves. Swimwear. Upholstery and Window Furnishings.	Cotton. Cotton/Polyester blends and most synthetic fabrics. The fastness to wash and dry cleaning on wool may be diminished.

Properties

Matt Finish. Solvent-free. Low odour. Intermixable, light fast, non-bleeding colours. Brilliant transparent shades in standard colours. Excellent opacity with SuperCover Colours. Soft to handle.

Excellent wash and dry clean resistance. Ironable.

Product Rub Resistance

After heat curing, prints exhibit very good resistance to wet and dry rub.

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Drying and Curing

For optimum wash and colour fastness, prints should be fully heat cured. Whilst the below information is a guide, the curing schedule used should be chosen to suit the heat resistance of the fabric being printed. Care must be taken with IR dryers to ensure that prints are fully cured. When printing on synthetic blends and fabrics, a lower curing temperature and longer drying time is recommended. If your drying conditions fall outside these recommendations, please contact your local representative for technical assistance.

The following curing guidelines are recommendations for ink deposit temperatures, not dryer temperatures. This should be checked with temperature strips to ensure the appropriate temperatures are achieved.

- 2-3 Minutes @ 160°C (320°F)
- 5-6 Minutes @ 140°C (285°F)
- 8-9 Minutes @ 120°C (250°F)

Fastness

Light Fastness is good. Most colours achieve a rating of 8/8 on the Blue Wool Scale, but all are not less than 6/8. When fully heat cured, prints have excellent wash and dry clean fastness.

Colour Matches: Note that high temperatures combined with strong detergents can cause colour changes in some colour matches. It is therefore imperative that all formulations are checked for acceptable wash fastness properties prior to production.

Colour Range

There are 19 Standard Colours (including Black and White) and 8 Standard Glow Colours and Print paste. There are 16 Super Cover Colours (including Black and 2 Whites) and 8 Super Cover Glow Colours and Print Paste. 4 Metallic Colours, 4 Process Colours, Puff Paste and Phosphorescent Green.

Permaset Aqua Standard Colours

- | | |
|----------------|--------------|
| Jet Black | Purple |
| Standard White | Junior Navy |
| Blue B | Light Blue |
| Mid Yellow | Yellow R |
| Orange R | Mid Green |
| Scarlet | Green B |
| Bright Red | Dark Brown* |
| Mid Red | Brown R* |
| Venetian Red* | Rose |
| Turquoise* | Print Paste* |

Available in 100mL (* excepted), 300mL, 1L, 4L and some colours in 15L containers.

Permaset Aqua Glow Colours

- | | |
|--------------|-------------|
| Glow Yellow | Glow Orange |
| Glow Red | Glow Pink |
| Glow Magenta | Glow Violet |
| Glow Blue | Glow Green |

Available in 300mL, 1L and 4L containers

Permaset Aqua SuperCover Colours

- | | |
|---|-----------------------|
| SuperCover White | SuperCover Black |
| SuperCover First Down White(not in 300mL) | SuperCover Blue B |
| SuperCover Mid Yellow | SuperCover Bright Red |
| SuperCover Yellow R | SuperCover Green B |
| SuperCover Orange R | SuperCover Light Blue |
| SuperCover Scarlet | SuperCover Mid Green |
| SuperCover Mid Red | SuperCover Purple |
| SuperCover Rose | SuperCover Ultra Blue |
| SuperCover Print Paste (not in 300mL) | |

Available in 300mL, 1L, 4L and some colours in 15L containers.

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**Permaset Aqua Super Cover Glow Colours**

Glow Yellow Glow Orange
Glow Red Glow Pink
Glow Magenta Glow Violet
Glow Blue Glow Green
Available in 300mL, 1L + 4L containers.

Permaset Aqua Metallics Colours

Metallic Silver Metallic Gold
Metallic Copper Metallic Pearl White
Available in 100mL, 300mL, 1L and 4L containers.

Permaset Aqua Process Colours

Process Black Process Cyan
Process Yellow Process Magenta
Available in 1L and 4L containers.

Permaset Aqua Bases

Puff Base
Phosphorescent Green
Available in 100mL, 300mL and 1L containers.

Ancillary Products

Fabrics must be held in place during printing by means of a pressure sensitive adhesive to ensure good definition and registration. Permaset Table Adhesive is suitable for this purpose.

Safety and Handling

Permaset Aqua has been formulated to be free of any toxic chemicals. The range has no flash point, and as such is exempt from Flammable Liquids regulations. Permaset Aqua is free from Lead and other prohibited heavy metals except Cadmium and Chromium VI. Comprehensive information on the safety and handling of products in the Permaset Aqua range of inks and ancillaries is provided in the appropriate Safety Data Sheets (SDS), which are available on request.

Environmental Information

Permaset Aqua is formulated to be environmentally friendly with enhanced performance characteristics. Permaset Aqua does not include any CFCs, HCFCs, volatile solvents or aromatic hydrocarbons. Unlike other inks (e.g. Plastisols) Permaset Aqua is also PVC and Phthalate free.

Storage

Containers should be kept in a cool place and tightly closed when not in use.

Suggested Safe Disposal Method

- 1/ Wipe as much excess ink off the screen as possible, first with a squeegee (back to the bucket), then with rags/paper (into bin)
- 2/ Hose out the screens in a contained vessel.
- 3/ Capture the liquid waste and allow it to settle.
- 4/ Strain out solids, dry solids in the sun and dispose of as solid waste.
- 5/ Aqueous wastes should be disposed of in sealed containers to a certified waste disposal entity.

Excess ink and wastes from the screen should be disposed of in accordance with the regulations of local regulatory authorities.

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The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Business, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will fully meet their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product information sheet out of date and users are requested to ensure that they follow current recommendations.

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