



Product Information

Texiscreen Aqua AJ Screen Inks

Texiscreen Aqua AJ is a water-based textile ink, designed for direct wet-on-wet printing on a wide range of natural and synthetic fabrics.

Drying and Curing

Heat Cure:

Standard Colours: 150-170°C for 2-3 minutes

Opaque White: 150-170°C for 3-4 minutes

Cold Curing:

Texiscreen Aqua AJ can be cold cured with the addition of 5% AJ333 Cold Cure Catalyst. **AJ333 must not be used with AJ Metallic Inks (see section 'Safety and Handling').**

For optimum fastness, prints should be fully heat cured. The curing schedule should be chosen to suit the heat resistance of the fabric concerned. Care must be taken when using infra-red dryers to ensure that prints are fully cured. In addition to conventional heat cure schedules, there are two optional catalysts available.

Catalyst for Cold Curing (AJ333)

For applications where drying and curing equipment is limited or not available a 5% addition will eliminate the need to heat cure Texiscreen Aqua AJ. However, AJ333 is not recommended for use in AJ025 Opaque White. **AJ333 must not be used in AJ Metallic Colours** (see section 'Safety and Handling').

Catalysed inks have a working life of 12 hours, after which the ink should be discarded. Catalysed ink gives no visible indication that it has exceeded its working life or that it has been catalysed previously. Therefore, care should be taken to avoid exceeding the working life of the ink, as this will greatly diminish its performance.

Ink catalysed with AJ333 should be restricted to use on the 100% cotton and 50/50 cotton/polyester blends typically used in T-shirts.

Where maximum wash fastness is required, it is recommended that Texiscreen Aqua AJ is used in conjunction with heat curing.

Fastness

Standard Colours:

Light fastness is good, not less than 6 on the Blue Wool Scale. Fully heat cured prints have excellent wash fastness to I.S.O. Tests No. 1 (40°C), 2 (50°C) and 3 (60°C) and the United Kingdom Home Laundering Consultative Council Recommendation No. 3 (60°C).

Colour Matches:

It should be noted that the combination of high wash temperatures and strong detergents can cause colour changes in some colour matches. For this reason, it is essential that all formulations are proofed prior to production to ensure wash fastness properties are acceptable.

Prints produced using ink catalysed with AJ333 are resistant to gentle, low temperature wash programmes such as I.S.O. Test No. 1 (40°C) and the United Kingdom Home Laundering Consultative Council No. 6 (40°C). The colours also have very good resistance to dry cleaning and direct ironing.

Metallic Colours:

Light fastness is good with the same wash fastness as the standard colours. AJ475 Metallic Gold has reasonable resistance to dry cleaning.

Main Characteristics

Drying

For optimum fastness Texiscreen Aqua AJ should be heat cured. Can be cold cured with the addition of AJ333 Cold Cure Catalyst.

Thinning & Wash-up

If necessary, thin with up to 5% water.

To increase flow: up to 5% ZT635 WB Flow Thinner.

Wash-up with water. Dried in ink may be washed out with Screen Wash Universal ZT639 if screens have been treated with a hardener.

Mesh

Monofilament. Standard Colours: No. 43-62.

AJ025 Opaque White: No. 34-43.

Metallics : No. 21-34.

Stencil Type

Should be water resistant.

Recommend: Dirasol 25, Supertex or 916. For optimum stencil life, each can be treated with Sericure Stencil Waterproofing Agent.

Coverage & Mesh No.

Standard Colours: 15-21 m²/ltr. No. 62

AJ025 Opaque White: 12-15 m²/ltr. No. 43

Metallics: 10-12 m²/ltr. No. 27

Fabrics

Cotton. Cotton/ Polyester blends and some synthetic fabrics.

The fastness to wash and dry cleaning on wool may be diminished.

Applications

T-shirts, Banners, Sports and Fashion Wear, Scarves.

Colour Range

Seritone Base Colours, a trichromatic set & metallics.

PANTONE®* 1000 Matching Formulae available.

AJ381 Extender Base for mixing into colours for a lower colour strength.

AJ021 primarily to produce pastel shades.

AJ025 Opaque White for printing dark fabrics.

AJ403 Opaque White Base for mixing with Pigment

Concentrates to produce opaque colours.

Properties

White Spirit free. Low odour. Intermixable, light fast, non-bleeding colours. Brilliant transparent shades. Soft handle.

Excellent wash and dry clean resistance. Ironable. Optional hot/cold cure schedules.

IMPORTANT:

Stir well before every use. Due to possible variations in fabrics and drying/curing conditions, it is strongly recommended that fastness and, particularly with metallic colours, rub resistance properties are proved suitable prior to a production run. With some fabrics, particularly those of a fine fibre, traces of spinning oil may need to be removed before printing.

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Rub Resistance

When fully cured, Texiscreen Aqua AJ has good resistance to wet/dry rub.

Other Uses

May be used for block printing and painting of fabrics. Suitable for use in schools where non-toxic and water soluble colours may be preferred. Due to the water content, some distortion is unavoidable if used on paper and board.

PANTONE®* Matching System

The Texiscreen Aqua AJ range includes 9 Seritone base colours plus Black, White and Extender Base to produce accurate simulations of the PANTONE colours in the coated ('C' suffixed) section. See section 'Fastness' for important information concerning resistance properties of colour matches.

The FUJIFILM Sericol package includes:

1 PANTONE® Color Formula Guide

2 FUJIFILM Sericol Formula Guide

A booklet containing formulations given in percentages by weight.

3 Colour Manager Software

For use with IBM Compatible computers. This package enable use of the PANTONE formulations plus:

Storage facility for user's own formulations

Automatic batch sizing and costing

Ink coverage estimator

Stock control system to calculate the amount of stock and a reminder when stocks fall below a chosen (programmable) level.

4 PANTONE Formula Scales

Pre-programmed with the FUJIFILM Sericol formulations of PANTONE references to ensure maximum accuracy, speed and cost savings.

AJ Metallics

AJ475 one pack Metallic Gold is ready to use, apart from a possible minor viscosity adjustment (see table 'Thinning').

Texiscreen Aqua Metallic Inks should not be mixed with standard Texiscreen Aqua colours.

For multi-colour, wet-on-wet printing onto dark fabrics, Texopaque Classic OP and Advantage ON screen inks should be used (see Product Information Sheets).

Colour values are greatly influenced by the fabric to be printed and the same colour can give substantially different results on different fabrics.

Standard Colours

Texiscreen Aqua AJ

AJ001		Black
AJ021		White
AJ025*		Opaque White
AJ057	(s)	Seritone Yellow (GS)/Primrose
AJ046	(s)	Seritone Yellow (RS)/Golden Yellow
AJ103	(s)	Seritone Orange/Orange
AJ122	(s)	Seritone Red (YS)/Scarlet
AJ152		Brick Red
AJ153	(s)	Seritone Red (BS)/Carmine
AJ154	(s)	Seritone Magenta/Fuchsia
AJ132	(s)	Seritone Violet/Violet

AJ218	(s)	Seritone Blue/Azure
AJ219		Oxford Blue
AJ316	(s)	Seritone Green/Sea Green
AJ475*		Metallic Gold

Available in 5 ltr containers.

* = Do not use with AJ333 Cold Cure Catalyst.

(s) = Seritone Base Colours

AJ381		Extender Base
AJ403		Opaque White Base

Available in 5 ltr containers.

Texiscreen Aqua AJ Trichromatics

AJ052		Trichromatic Yellow
AJ135		Trichromatic Magenta
AJ215		Trichromatic Cyan
AJ004		Trichromatic Black

Available in 5 ltr containers.

Catalyst for Cold Curing

AJ333		AJ Cold Cure Catalyst
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All available in 1 ltr containers.

Additives for Texiscreen Aqua

ZT635		WB Flow Thinner
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Available in 1 ltr containers.

Ancillary Products

During printing, fabrics have to be held by means of a pressure sensitive adhesive so that good definition is obtained. FlashFix and T-Fix Extra Spray Adhesives or Drystick Extra are suitable for this purpose. (See relevant Product Information Sheets).

Fujifilm Sericol UK Limited:

- Has certification to the International Environmental Standard, ISO 14001
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

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Safety and Handling

Texiscreen Aqua AJ

- **Has a flashpoint greater than 55°C and is therefore not classified as a “dangerous substance” under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).
**AJ cold cure catalyst AJ333 has a flashpoint of 47°C.
- Is formulated free from lead and other heavy metals and is tested to comply with the EN71-3: 1995 Toy Safety Standard.
- Do not use AJ333 Cold Cure Catalyst in AJ Metallic Colours as this can lead to an exothermic reaction, which could cause the container to explode.

Comprehensive information on the safety and handling of Texiscreen Aqua AJ inks and solvents is given in the appropriate FUJIFILM Sericol Material Safety Data Sheets, available upon request.

Environmental Information

Texiscreen Aqua AJ:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.
- Is formulated free from aromatic hydrocarbons.
- Is water-based and can therefore be considered to have less impact on the environment, when compared with solvent-based products.

The information and recommendations contained in this Product Information Sheet, as well as technical advice otherwise given by representatives of our Company, 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 meet fully 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.

SERICOL
More than ink...Solutions.

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