

Aquachromic Screen Ink

Technical Product Information

Metachromatic Function: Irreversible
Product Name: AquachromicScreen Ink
Last Revision: 24/01/2013

Description

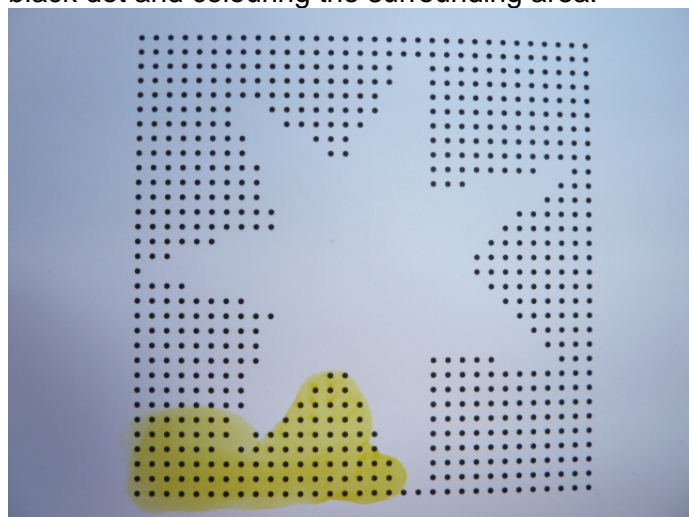
A solvent based ink for paper and board substrates.

Supplied as a 1 part ink system ready formulated and easy to use allowing flexibility in application and optimisation in appearance of printed article.

Different colour release inks are available – all are black until washed with water. Standard colours available are Red, Yellow and Blue.

Application

Screen onto paper. The dry ink is black in colour. Small areas – dots can be printed. The ink dries by solvent evaporation and oxidation. Once dry wetting with water will result in colour washing out from the black dot and colouring the surrounding area.



Aquachromic Screen Ink – Yellow

Product Properties

Adhesion

There is excellent adhesion to paper and card, other substrates may be possible if they are print receptive. The development of colour by water is probably best suited to those substrates which are

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absorbent – such as paper. It is recommended that this ink is evaluated fully prior to any commercial use.

Rub Resistance

The ink itself after drying exhibits excellent rub resistance properties on absorbent and non absorbent substrates.

Additional Product Properties

Pigment Content (%)	Approx : 8%
Solvent	De-aromatised mineral spirits

Recommended Printing Parameters

For screen printing we have seen good results with the following mesh sizes but others may be tried.

	European / US
Recommended Mesh Size	77T / 196
Minimum Mesh Size	90T / 229

A water based screen stencil emulsion such as VISTA from Sun Chemicals may be used, other suitable stencils will be available..

Do not allow the ink to sit dormant on the screen as this will cause 'drying in' on the screen and affect print definition and quality.

Ink can be thinned with solvents such as Demineralised mineral spirits (Alcosol D40 etc). Polar solvents should be avoided.

Ink Consumption

Typical ink consumption for Wet and Reveal Solvent based Screen Ink on a 70T /196 mesh is approx 30 – 35gms per sqm. In some applications where high opacity is required 2 or 3 passes may be required.

Drying

The ink will air dry or can be forced dried with IR lamps or hot air. It is recommended that the ink and substrate are fully tested before a print run.

Cleaning recommendations

Do not allow inks to dry in on the mesh. Clean thoroughly with suitable solvent based screen wash.

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