

Solvent Based Wet & Reveal Ink

Technical Product Information

Metachromatic Function: Reversible

Product Name: Solvent based Wet & Reveal Screen Ink

Last Revision: 0704/2015

Description

A solvent based ink for paper, plastic, film 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.

Application

Screen onto textiles, paper, plastic, film and labels. As the ink dries it becomes opaque and white. It may be recoated to increase opacity. When wet the opacity is lost and the film becomes transparent. Transparency is reduced if too heavy a coat or too many layers are applied.

Product Properties

Adhesion

The adhesion of Solvent based Wet & Reveal Screen Ink depends upon the surface properties of the selected substrate. Due to the wide variety of substrates it is recommended that this ink is evaluated fully prior to any commercial use. For full adhesion and development of resistance to damage by water the film should be fully dry.

Rub Resistance

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

Additional Product Properties

Pigment Content (%)	29 ± 2
Solvent	IPGA

Recommended Printing Parameters

The optimum screen configuration depends on several factors, the most important of which is the desired opacity when dry balanced against the transparency when wet.

The theoretical ink volume of the screen is crucial for the desired effect. Using a higher theoretical ink volume will increase the opacity.

	European / US Measurement
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 IPGA – isopropyl glycol acetate, propyl glycol, PMA.

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.

Handling

Solvent based Wet & Reveal Ink is a one part ink system that will remain stable if kept in the supplied container and stored in the correct storage conditions.

Mixing Instructions

Contents may settle on transit. Ink can be thinned with solvents such as IPGA – isopropyl glycol acetate, propyl glycol, PMA. Ink should be thoroughly mixed using a mechanical stirrer prior to application. Do not mix with other ink systems.

Storage

Solvent based Wet & Reveal Ink should be stored away from frost and high temperature to gain optimum performance from the product.

Shelf Life 6 Months

Do not store in temperatures in Excess of 25°C / 77°F

As the product is solvent based it is important to keep the containers tightly shut to avoid evaporation and skinning of the product.