

SUNLIT™ POSTER

SunLit Poster inks are a range of 7 products optimised for 4 colour process printing of indoor and outdoor posters. SunLit Poster process inks are particularly adapted for the printing of coated and uncoated substrates commonly used in poster printing.

SunLit Poster process inks have higher light- and weather fastness* properties and are resistant to alkaline* and solvent* adhesives. They are suited for other applications as well where increased light fastness* is required.

This document shall help to identify the appropriate and safe product for all relevant applications.

SunChemical recommends Black IRO75 and Cyan IRO25 to complete the four colour process set.

COLOURS	PRODUCT CODE	LIGHT FASTNESS ISO 12040	WEATHER FASRNESS*	ALCOHOL ISO 2836	SOLVENT MIXTURE ISO 2836	ALKALI ISO 2836
SUNLIT POSTER Yellow G 59001	PTR01	6	+	+	-	+
SUNLIT POSTER Yellow G 59002	PTR02	7	++	+	-	+
SUNLIT POSTER Yellow G 59003	PTR03	7	+++	+	+	+
SUNLIT POSTER Magenta P 59067 [#]	PTR67	6	+	+	+	+
SUNLIT POSTER Magenta P 59043 ^{##}	PTR43	6	+	+	+	+
SUNLIT POSTER Magenta P 59068 ^{##}	PTR68	6	++	+	-	+
SUNLIT POSTER Magenta P 59069	PTR69	7	+++	+	+	+

[#]yellow shade Magenta ^{##}blue shade Magenta ^{###}see page 2

Poster printing is a highly specialised business. With the complete range of SunLit Poster inks SunChemical offer the right solution in the complex frame of post press demands and overall commercial aspects.

working for you.



SUNLIT™ POSTER

CHARACTERISTICS

Excellent lithographic stability at all press speeds
 Quick absorption and setting*
 Very good stack capability*
 Good mechanical resistance*

Very good ink transfer including large format presses
 Good gloss*
 Excellent blanket release properties retaining the dimension stability of the substrates
 * Dependent on substrate

PROPERTIES AND RESISTANCES

The pigments used in SunLit Poster inks are not necessarily fully resistant to all post printing conditions that may be encountered. It is therefore necessary to indicate the resistance required at the time of ordering (see table). For each shade this table gives resistance values corresponding to the different ISO standards for solid prints made under standard conditions (ISO 2834).

LIGHT FASTNESS

The light fastness of prints is measured according to ISO 12040 by comparison to a calibrated set of 8 examples of blue dyed wools of increasing resistance to light fading. The resistance times can vary in practice caused by a number of important factors: Pigment compositions, substrate, colour strength, ink film weight applied, format (solid, half-tones), storage conditions, exposure time etc. In mixtures, it is the component with the lowest resistance that defines the overall resistance value. For most poster applications a light fastness of at least 6 is recommended.

ALKALI RESISTANCE

ISO 2836 is used to assess, in a general way, resistance to alkaline products. Even if resistance to the standard ISO 2836 conditions is a necessary requirement, this result alone may not give sufficient confidence and some additional specific tests may be necessary (for example resistance to adhesives and glue).

SOLVENT RESISTANCE

ISO 2836 is used to assess to a first approximation, the ability of the print to resist solvents and certain print finishing processes as varnishing or lamination on films. However, the composition of the materials used can be extremely variable: complementary tests may sometimes be necessary.

WEATHER FASTNESS

There is no industrial standard to assess the resistance of prints against bad weather conditions. However from our knowledge in the use of our products we have performed tests under practical conditions allowing a relative comparison of our products. The results are given in a scale of +++ excellent, ++ very good and + acceptable. A non appropriate weather fastness may lead to discolouration under certain environmental conditions.

LIMITATIONS

When fixing posters on Zinc plates, spotting is observed occasionally. This is due to a chemical reaction of the surface of the Zinc plate, the environmental humidity and the Magenta pigment. Alkaline glues enforce this interaction. The use of very weather resistant products (++ or +++) provides additional safety.

Resistant pigments (for Yellow and Magenta) provide colour shades which may differ from the requirements of the colour standard ISO 2846:1. Although not always being centered within the specifications, PTR01, PTR68 and PTR69 are compliant with ISO 2846:1.

FOUNTAIN SOLUTIONS

SunLit Poster process inks are compatible with a wide range of fountain solutions. Isopropanol (IPA) reduction or elimination is supported. Sun Chemical recommends the following ideally adapted products:

SunFount™ 410; suitable for 5-7% IPA in normal water qualities

SunFount™ 480; suitable for 3-6% IPA, to prevent roller glazing

SunFount™ 455; suitable for 0-5% IPA, adapted for IPA free printing

The quality of the water and the overall printing conditions has a strong impact on the choice of fountain solution and the level of IPA required. Please consult our technical services for assistance.

APPLICATION INFORMATION

SunLit Poster process inks dry by absorption and oxidation. They are duct fresh and supplied ready for use. The use of additives is not required. SunLit Poster is suitable for all types of offset printing plates.

SunLit Poster is not recommended for sensitive food packaging and for printing on impervious substrates (films, foils).

For further detailed application advice please contact our technical services. A Material Safety Data Sheet is available on request.

SunChemical®

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