

20/09/2011

Information sheets



Radglo® fluorescent pigments for the textile printing industry



Because of their outstanding brilliance and luminosity, properties that are inherent to fluorescent pigments, RADGLO® colours are particularly useful where an intense and long distance visibility is needed.

These characteristics make them especially applicable for publicity and advertising as well as safety and warning signals.

Also in fashion design of colours for printed fibres, frequently pure or halftone fluorescent pigments are recommended in order to freshen up the conventional shades and to bring in more depth in colour variances.

RADGLO® JST fluorescent pigments are a unique series for this application, combining a brilliant and high colour strength with an extremely fine particle size, allowing let downs, colour mixtures and processing with all standard equipment.

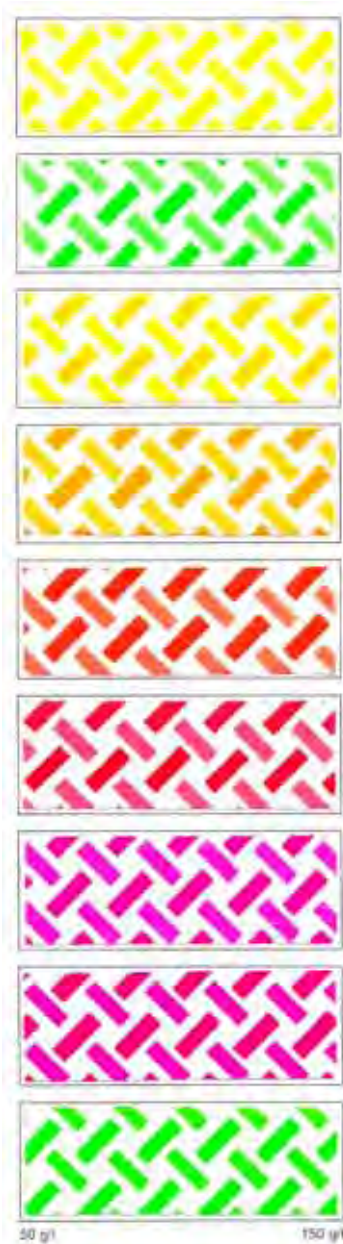
RADGLO® PC fluorescent pigments are recommended for improved heat- and washfastness.

RADGLO® AFN fluorescent pigment dispersions offer formaldehyde free alternatives, supplied in a paste form.

Pigment types per application

Rotogravure/Screen & Rotoscreen printing	Traditional	JST/STX
	Heat- and washresistant formulations	PC
	Formaldehyde free formulations	AFN/GWT[Ⓞ]
Plastisol printing	Textile	PC

Ⓞ : Speciality



In general, a textile printing ink formulation is composed of two basic preparations:

1. Stockbase

- Binder system (e.g. acrylic resins, co-resins)
- softening agents
- crosslinking agents
- emulsifiers
- thickeners
- anti-foaming agents

2. Reduction base

This is a mixture of only emulsifiers, thickeners and softening agents. Both compositions might be formulated with or without white spirit; in the former case more emulsifier will be needed. RADGLO® JST or PC fluorescent pigment is added to an extent of 5 to 15 percent by weight to the stock base under continuous mixing. Further let down is realised by using the reduction base.

When 50% water dispersions of JST/PC pigments or AFN dispersions are used, the composition should be adjusted in order to achieve the proper solids content and pigment binder ratio.

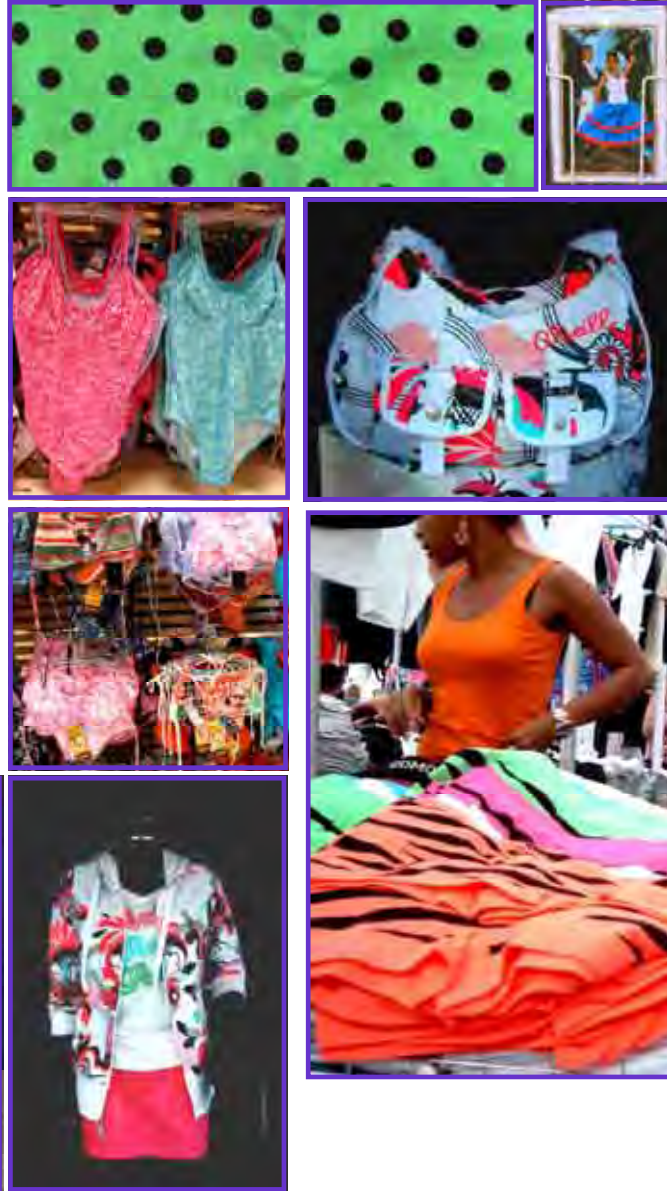
The printing process and required colourstrength will determine the correct addition. For each specific fabric and end-use, the various raw materials will have to be tailored to achieve the required characteristics.

The recommended RADGLO® fluorescent pigments withstand fixating processes at 150°C during 4-5 minutes.



Properties

RADGLO® JST and PC fluorescent pigments offer shades to the fashion designer and textile printer, for fulltone use or blends with conventional pigments. Due to the fine particle size and high colourstrength, the addition is very easy and colour development is fast. Other ingredients as well as the fabric should be selected for cleanliness and transparency in order to avoid quenching of the fluorescence. RADGLO® JST and PC fluorescent pigments will show satisfactory heatstability, bleeding, wash and rubfastness. Fluorescent pigments have limited lightfastness properties. The degree of fading will depend on the nature of binder system and the amount of pigment used.



Radglo® Specialities

* 50% Waterdispersions of JST pigments: *WR series*

® = registered trademark

Disclaimer: This technical information is just an advice. No warranty of fitness for a particular purpose is made.



RADIANT COLOR N.V.

Europark 1046 - B-3530 HOUTHALEN

Telephone sales department: + 32 11 52 07 60

Fax: + 32 11 52 66 79

E-mail: sales@radiantcolor.be

Website: www.radiantcolor.be

