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Information sheets



*Radglo® fluorescent pigments for the paint 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.**

Typical examples in the paint industry are found in paints for ambulances, fire engines, advertising signs and clay pigeons.

RADGLO® fluorescent pigments and AFN fluorescent dispersions offer a variety of qualities, which are specifically developed for paint formulations in both solvent and/or aqueous mediums.

*Pigment types per application*

<b>Traditional paints</b>	Aqueous and non-polar solvent formulations	<b>JST/AFN/GWT<sup>(1)</sup></b>
	Polar solvent formulations	<b>P-09/PS/GRT<sup>(1)</sup></b>
<b>2-Component paints</b>		<b>JST/PS/GWT<sup>(1)</sup>/GRT<sup>(1)</sup></b>
<b>Aerosol paints</b>	Aqueous and non polar solvent formulations	<b>JST/PS/PC/GWT<sup>(1)</sup>/GRT<sup>(1)</sup></b>
	Polar solvent formulations	<b>PS/PC/GRT<sup>(1)</sup></b>
<b>Target coatings</b>		<b>JST/GWT<sup>(1)</sup></b>
<b>Powder coatings</b>	Epoxy/polyester formulations	<b>GF/GFS<sup>(2)</sup></b>

(1): Speciality

(2): Has to be considered as a recommendation; however we would advise to have them tested on an individual base.

Because of the importance of all safety markings and their need for instant recognition and reaction from the observer, standardising and regulating of the colours became a necessity. Also fluorescent paints are specified for their colourimetric co-ordinates. Moreover, a prescribed light-fastness degree will be required since this concerns continuous exterior exposure.

RADGLO® JST type pigments comply with these demands in both aqueous and non-polar solvent paint formulations, whereas PS is recommended for polar solvent paint recipes.

For indoor applications or short life outdoor paints, such as decorative, temporary markers and artist paints, RADGLO® PS colours may be chosen.



The corresponding colours to RAL standards are:		
<b>RAL 1026</b>	PS-10	Chartreuse
<b>RAL 2007</b>	PS-32	Orange-Yellow
<b>RAL 2005</b>	PS-33	Orange
<b>RAL 3026</b>	PS-34	Orange Red
<b>RAL 3024</b>	PS-35	Red
<b>RAL 6038</b>	PS-11/PC-21	Green



## Properties

RADGLO® PS fluorescent pigments provide the paint producer with standard colour shades, complying with national and international colour and lightfastness specifications. The PS pigments should be selected for their fading resistance.

The paint system should be applied on a white underground. This means that on a dark surface, a white colour has first to be applied as shown. (The fluorescent layer should cover the white parts completely.)



The thickness of the dry film would be about 100 µm. After drying, the surface will be covered with a transparent lacquer varnish, stabilised with UV inhibitors, in order to ensure optimal physical and chemical properties. The dry film thickness of this topcoat might vary between 40 and 50 µm. The resin/solvent system of the topcoat should be selected for adhesion and compatibility with the fluorescent paint, and preferably have the same basis.

Formulations on base of RADGLO® AFN fluorescent dispersions have to be adjusted with water.



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## Radglo® Specialities

- \* *Fluorescent tracer dyes: CFS-0-06 Yellow, DD-5-0954 Red*
- \* *Cosmetic colorants: Dermaglo ,COS*
- \* *Dye programme*
- \* *Solid state fluorescent pigment: VSF-0-01*
- \* *Water soluble toners: STX series*
- \* *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.

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