FLUORESCENT WATER DISPERSIONS

DAY-GLO Fluorescent Water Dispersions were developed for applications in latex and tempera paints, water colors, paper coatings and other aqueous systems. They are anionically stabilized, offer excellent tinctorial strength and eliminate dusting encountered when using dry pigments.

Available Colors:

	WAX	WT
Aurora Pink*	WAX-11	WT-11
Neon Red*	WAX-12	WT-12
Rocket Red*	WAX-13	WT-13
Fire Orange*	WAX-14	
Blaze Orange*	WAX-15	WT-15
Saturn Yellow*	WAX-17	WT-17
Signal Green*	WAX-18	WT-18

Product Description:

DAY-GLO Fluorescent Water Dispersions contain 50% fluorescent pigment and no binder. They are compatible with a wide range of aqueous systems and are available in two product lines:

Product Line	**Application**	**Properties**
WAX	Paper Coating Textile Aqueous Inks	-contain DAY-GLO AX-Pigments -high tinctorial strength -excellent money value
WT	Latex Paint Tempera Paint Aqueous Inks Waterborne Coating	-contain DAY-GLO T-Pigments -excellent solvent resistance -very good shelf stability

The pH of a formulation, as well as certain additives, can influence the performance of the fluorescent dispersions and their effects should be tested. We recommend maintaining a pH of 7-8 for best stability.

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Color Development:

DAY-GLO Fluorescent Water Dispersions are transparent. To optimize the fluorescent effect they should be applied over white. If adding TiO_2, the amount should not exceed 2% based on the weight of the fluorescent dispersion. The addition of too much white will reduce the fluorescent effect.

Lightfastness:

DAY-GLO Fluorescent Water Dispersions exhibit good lightfastness for interior applications but have limited use in exterior applications. Evaluations should be conducted to determine if the use of DAY-GLO dispersions will meet lightfastness requirements.

Various approaches can be taken to improve outdoor performance such as:

- increased loading of DAY-GLO Dispersions.
- heavier film deposit or multiple coats.
- additions of UV stabilizers.
- clear top coat containing UV stabilizers.

Stability:

DAY-GLO Fluorescent Dispersions offer storage stability of two months. All dispersions should be protected from freezing.

Typical Physical Properties:

Percent Pigment Solids	50%
Specific Gravity	1.14
Weight Per Gallon	9.5
Average Viscosity	3,500 cps
Average pH	6.8-7.2

Suggested Formulations:

A. Fluorescent Paper Coating

	Pounds
DAY-GLO WAX-14 (50% Solid)	76.8
Glycerine	1.5
Polyvinyl Acetate Binder (45% solids)	21.7
	100.0

Thin with water to desired viscosity.

B. Exterior-Interior Vinyl Fluorescent Flat, Finish

	Pounds	Gallons
2% Methocel K4MDGS 4000 cps[1]	22	2.65
Ethylene Glycol	25	2.75
Nopco NDW[2]	1	.12
Tamol 731-25%[3]	2	.25
DAY-GLO WT (50% Solid)	517	53.80
Flexbond 315[4]	400	44.00

C. Interior Vinyl Fluorescent Flat, Finish

	Pounds	Gallons
2% Methocel K4MDGS 4000 cps[1]	58	7.00
Ethylene Glycol	25	2.75
Nopco NDW[2]	1	.12
Tamol 731-25%[3]	2	.25
DAY-GLO WT (50% Solid)	517	53.80
Flexbond 315[4]	400	44.00
TiO_2 Dispersion 877-0018[5]	13	.77
Permanent Yellow Dispersion 877-2501[5]	3	.31

Constants:		
	Yields	102 Gals.
	Total Solids	49.5%
	P.V.C.	50.0%
	Weight/Gallon	9.40
	Viscosity	75-85 K.U.
	Grind	6H
	Gloss	Flat

[1]Dow Chemical Co.
[2]Nopco Chemical Div.
[3]Rohm and Haas Company
[4]Air Products & Chemicals, Inc.
[5]Tenneco Chemicals Inc.