

## + Plasticolors® CF

### Pigment Dispersions for Polyester Applications

Waste less with low viscosity pigment dispersions designed for polyester applications. While our CF products have become an industry standard because of its color strength and ease of use, it has gone through continued development over time to serve as one of the most efficient pigment dispersion lines in the market.

#### ► Key Benefits

These pigment dispersions are pumpable, flowable and pourable in a manner that makes them exceptionally easy to handle. The ability to achieve low viscosity allows for less waste left over in the container. Pigment solid concentration is optimized to balance viscosity with the color strength. Consistent color quality is made available in a large palette of colors and pigment chemistries.

#### ► Properties

CF pigment dispersions contain no solvents or reactive monomers, are heavy metal free\*, and produce high tint strength. Our technology produces the optimal particle size for color strength and pigment efficiency. Typical product viscosities range from 3,000 to 20,000 cP (mPa\*s) depending on pigment chemistry and concentration. All pigments are dispersed in a low molecular weight unsaturated polyester resin.

The resin unsaturation allows for cross-linking through double bonds as occurs in peroxide-cured polyesters or vinyl esters in the presence of a reactive monomer, such as styrene. In addition, the secondary hydroxyl groups provide a means to crosslink the resin with polyisocyanates. When crosslinked with or covalently reacted the CF resin is fully converted to a portion of the matrix solids.

#### ► Compatibility

- Unsaturated Polyester Resins
- Vinyl Esters
- Acrylate Monomers

\* Chromaflo Technologies does not intentionally add any heavy metals, reactive monomers or solvents to these dispersions. However, some raw materials may contain impurities in trace amounts.

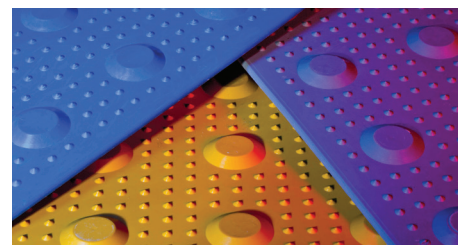
#### ► Applications

CF pigment dispersions are made to serve in a wide variety of polyester applications. As such, they are best suited for the following processes:

- SMC, BMC, TMC
- Pultrusion
- Polyester Cast
- Polymer Concrete
- Polyester Panel

#### ► Handling and Storage

Proper handling is essential to maintain good quality. Containers should be tightly sealed when not in use. This will prevent the absorption of atmospheric moisture and minimize the chance of airborne contamination. Containers should be stored in a manner as to protect them from temperature extremes (0-45°C, 32-120°F). It is recommended that the containers be mixed prior to use. Shelf life of the CF colorants is 24 months from the date of manufacture in unopened containers. Reference the MSDS for more product care information.



Product Code	Description	CI Name	Pigment Wt. %	Specific Gravity	Pigment Lightfastness <sup>1</sup>		Pigment Weatherfastness <sup>2</sup>	
					Full	Tint	Full	Tint
CF-1099	Titanium Dioxide	PW 6	73	2.22	7-8	-	5	-
CF-1027	Zinc Sulfide	PW 7	65	1.99	-	-	-	-
CF-2010	Tinting Black	PBk 7	14	1.17	8	8	5	5
CF-20737	HS Black	PBk 7	34	1.10	8	8	5	5
CF-02811	HS Black	PBk 7	50	1.17	8	8	5	5
CF-03023	Phthalo Blue RS	PB 15:2	20	1.16	8	8	5	5
CF-30097	Phthalo Blue GS	PB 15:4	20	1.17	8	8	5	5
CF-30110	Quinacridone Violet	PV 19	20	1.17	7	7-8	-	-
CF-05039	Phthalo Green BS	PG 7	22	1.22	7-8	7	5	5
CF-06038	Organic Orange	PO 34	20	1.14	5-6	5	-	-
CF-7022	Red Oxide	PR 101	70	2.38	8	8	5	5
CF-70214	Quinacridone Red	PR 19	15	1.14	7-8	7	4	3-4
CF-70186	Organic Red	PR 170	20	1.13	-	-	3-4	2-3
CF-70201	Organic Red	PR 254	25	1.18	8	8	-	-
CF-70369	Organic Red	PR 48:2	27	1.16	6-7	5	-	-
CF-8006	Yellow Oxide	PY 42	60	1.94	8	8	5	5
CF-8007	Organic Yellow	PY 14	20	1.14	5	3-4	1	1
CF-80139	Organic Yellow	PY 151	25	1.16	6-7	6-7	-	-
CF-80805	Inorganic Yellow GS	PY 184	50	1.74	7-8	-	4-5	-
CF-80925	Inorganic Yellow RS	PY 184	65	1.88	7-8	-	4-5	-

Products listed represent standard single pigment colors. Custom color matched blends are available with special consideration for a variety of requirements, including color, outdoor durability, abrasion, and cost considerations. If a specific pigment chemistry or custom blend is needed, please contact Chromaflo Technologies.

**NOTE:** All fastness data is based on pigment supplier information and is given for guidance only. It is not an indicator of fastness in all applications, as many factors and components have a high level of influence over performance. It is the responsibility of the user to test and verify performance in their individual application.

(1) Light fastness is measured on an eight step blue wool scale, where 1=very poor light fastness and, 8=excellent light fastness.

(2) Weather resistance is measured on a five step gray scale, where 1= very poor weather resistance, 5= excellent weather resistance

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Where Art Meets Technology