

# Pre-Blended Colorants for Epoxy, Polyurethane, and Polyaspartic Coatings

Color Solutions

## Chroma-Chem® FLV Color Packs

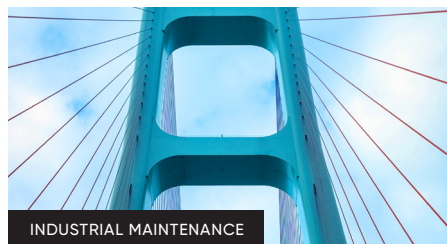
### General Information

The Chroma-Chem FLV Color Packs have been designed to provide an effective way to tint most epoxy coatings, especially concrete protective floor coatings. These blended colors utilize the FLV Series masstones to produce an efficient method for in-plant tinting or tinting at the job site. The FLV Series colorants have been formulated for use in all epoxy coatings as well as polyurethane and polyaspartic coatings for multiple substrates. The rheological profile of the FLV Series yields a product line with superior handling properties when compared to many other colorants based on 100% solids epoxy or polyol resins.

### Key Benefits

The FLV Series pigment dispersions consist of organic and inorganic pigments milled in a proprietary system. The stabilization method was chosen to ensure broad compatibility in multiple resin chemistries as well as long-term viscosity and colorant stability. The primary stabilizer contains a high level of bio-based components making this line more sustainable than other colorant lines.

These color packs provide a method to produce a consistent finished color in many seamless flooring and industrial maintenance coatings systems without having the need to blend multiple colorants together. These colors are packaged in quart containers for job site or small batch tinting and 5 gallon pails for in-plant usage.



## Properties

The rheological properties of these color blends are in a range where they can be easily poured from the container. However, scrapping the sides of the container is recommended to ensure all colorant is removed to maintain proper opacity of the coating.

The majority of colors use pigments with excellent lightfastness that provide superior exterior durability. The safety colors are formulated for interior applications. Exterior use of these colors is not recommended without thorough testing.

The primary stabilizer in the FLV Series has an epoxy equivalent weight of approximately 213. This value is in the range of systems containing epoxy resin and glycidyl esters.

## Applications

The FLV Series is formulated for use in concrete protective and floor coatings based on epoxy, polyurethane, and polyaspartic resins. It can be used in similar systems for other applications including, but not limited to, automotive, coil, industrial maintenance, marine, metal containers, pipe, and other protective coatings.

## Compatibility

The FLV Series colorants are compatible with most epoxy, polyurethane, and polyaspartic coating systems. They are also compatible with epoxy coatings formulated with diluent. However, increasing levels of diluent in the coating may lead to color control issues (flocculation, color float).

## Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed or shaken prior to use. Containers should be tightly sealed when not in use.

The shelf life on the FLV Series colorants in unopened containers is two years from the date of manufacture.



Product Code	Description	% Pigment		% Resin		% Other Non-Volatiles		Specific Gravity	VOC <sup>o</sup> g/L	Pigment Lightfastness As Supplied	Pigment Resistance	
		X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.				Acid	Alkali
FLV-0060	White	72.8	40.4	199	45.1	7.3	14.5	2.15	<10	N	N	N
FLV-1000	Beige	72.4	38.4	20.6	47.4	7.0	14.2	2.18	<10	N	N	N
FLV-1020	Tan	71.5	38.5	21.8	48.4	6.7	13.1	2.11	<10	N	N	N
FLV-1050	Khaki	70.7	37.5	23.1	50.6	6.2	11.9	2.08	<10	N	N	N
FLV-1080	Toffee	70.5	37.3	23.0	50.2	6.5	12.5	2.07	<10	N	N	N
FLV-2000	Light Gray	72.5	42.4	20.3	43.9	7.2	13.7	2.05	<10	N	N	N
FLV-2010	Medium Gray	72.0	41.4	20.9	45.1	7.1	13.5	2.05	<10	N	N	N
FLV-2020	Warm Gray	71.9	38.3	21.1	47.8	7.0	13.9	2.15	<10	N	N	N
FLV-2030	Natural Gray	71.9	41.0	21.0	45.5	7.1	13.5	2.05	<10	N	N	N
FLV-2040	Cement Gray	71.2	40.0	21.8	46.8	7.0	13.2	2.04	<10	N	N	N
FLV-2050	Battleship Gray	69.2	39.2	24.1	48.9	6.7	11.9	1.92	<10	N	N	N
FLV-2060	Dark Gray	69.5	35.9	23.9	51.6	6.6	12.5	2.05	<10	N	N	N
FLV-2070	Charcoal	57.9	27.0	36.3	64.0	5.8	9.0	1.67	<10	N	N	N
FLV-5000	Mint Green	72.6	42.1	20.2	44.1	7.2	13.8	2.07	<10	N	N	N
FLV-5030	Kelly Green	64.2	21.6	32.9	72.8	2.9	5.6	2.10	<10	N	N	N
FLV-5050	Bright Green	61.8	25.7	32.4	64.2	5.8	10.1	1.88	<10	N	N	N
FLV-5080	Forest Green	55.2	24.1	40.6	69.6	4.2	6.3	1.62	<10	N	N	N
FLV-6010	Safety Yellow	16.2	11.0	77.4	83.0	6.4	6.0	1.02	<10	N	N	A
FLV-7000	Light Blue	72.5	41.4	20.2	44.5	7.3	14.1	2.09	<10	N	N	N
FLV-7040	Natural Blue	61.8	33.4	31.6	56.3	6.6	10.3	1.69	<10	S	N	N
FLV-7070	Deep Blue	37.3	19.9	55.8	72.3	6.9	7.8	1.23	<10	N	N	N
FLV-8020	Safety Red	22.6	14.1	70.8	79.4	6.6	6.5	1.06	<10	S*	N	A
FLV-8070	Brick Red	68.6	29.3	29.6	67.1	1.8	3.6	2.15	<10	S	N	N
FLV-9990	Black	20.7	12.3	74.9	83.4	4.4	4.3	1.06	<10	N	N	N

<sup>o</sup>Expected values based on formulation

Lightfastness and Resistance Key			
N	no bleed/discoloration	*	no Florida data, only Fadeometer
S	slight	**	no data
A	appreciable		

Lightfastness and Resistance information is provide for guidance purposes only.  
Source: NPIRI Raw Materials Data Handbook Volume 4 (© 2000)

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