

+ Chroma-Chem® Spartacryl PM® (IRR)

Pigment Dispersions for Solvent-Based Coatings

The Spartacryl PM® Series IR Reflective colorants are designed specifically for use in high-performance, non-aqueous, industrial coatings where reduced heat build is desirable. The line consists of pigments that allow the coatings formulator to match a wide range of color spaces and total solar reflectance (TSR) values.

► Key Benefits

Chromaflo Technologies' IR reflective technology works to maximize total solar reflectance with focus in the near IR region (780 - 2,500 nm). Proper pigment selection, optimized milling, and tight manufacturing and cleanliness practices are combined to create a line of colorants for Cool coating technologies.

By using Chromaflo Technologies' IR reflective technology, paint formulators can develop coatings that keep surfaces cool when exposed to the sun. For example, when applied to a metal roof, the coatings can provide a number of benefits including reduced energy costs, increased roof life cycle by reducing thermal shock stress associated with large temperature changes, and a reduced heat island effect.

IR reflective technology supports government legislation and industry organizations such as the EPA's Energy Star program, The Cool Roof Council, and California's Title 24 requirements.

► Properties

The dispersing resin in the Spartacryl PM® Series is a nonfunctional acrylic polymer with a tightly controlled, low molecular weight. The molecular weight of the vehicle helps to ensure full development of pigment strength through its exception wetting properties while providing a rheological profile suited for in-plant tinting.

PM acetate is used as the solvent because it is not toxic and does not react with cross-linking resins such as isocyanates. Only prime pigments are included in this line's formulations; no extenders are present.

► Applications

The Spartacryl PM® Series IR Reflective colorants are formulated for use in most non-aqueous industrial coatings including, but not limited to, concrete protection, general industrial finishes, general OEM, industrial maintenance, joinery, marine, and roof coatings.

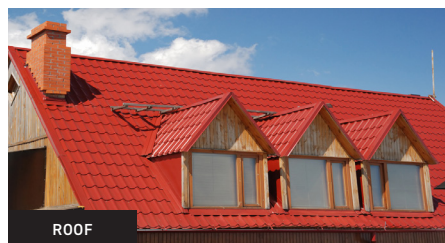
► Compatibility

The Spartacryl PM® colorants are compatible with most coating systems based on acrylic, urethane, epoxy, polyester, alkyds of all oil lengths, nitrocellulose, vinyl, and hybrid systems. This line is also compatible with most aliphatic and aromatic hydrocarbons, esters, ethers, ketones, and reactive diluents.

► Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Containers should be tightly sealed when not in use. Repacking the colorant into a smaller container should be considered if the colorant level in the container is less than 20% of the original amount and will be stored for an extended period of time.

Shelf life on the Spartacryl PM® Series colorants is 1 year from the date of manufacture in unopened containers.



Product Code	Description	CI Name	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC*	Pigment Lightfastness		Pigment Resistance	
			X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			g/L	Mass	Tint	Acid
60312	Titanium Dioxide White	White 6	67.6	34.9	9.7	18.0	22.7	47.1	2.01	456	N	N	N	N
60629	Brown	Brown 23	11.7	7.5	12.0	11.6	76.3	80.9	1.03	781	N	S	N	N
60633R	Black	Brown 29	67.0	28.1	9.6	19.3	23.4	52.6	2.17	508	**	**	**	**
60637R	Inorganic IR Green	Green 26	66.0	27.1	9.5	18.8	24.5	54.1	2.14	523	N	N	N	N
60638R	IR Black	Black 31	19.9	4.5	22.5	24.7	57.6	70.8	1.18	680	**	**	**	**
60661R	Yellow (GS)	Yellow 53	54.0	20.1	12.6	19.6	33.4	60.3	1.75	582	N	N	N	N
60662R	Yellow (RS)	Brown 24	51.0	13.2	12.0	18.9	37.0	67.9	1.77	655	N	N	N	N
60663R	Red (YS)	Red 101	57.8	21.1	11.1	18.6	31.1	60.3	1.88	583	N	N	N	N
60664R	Black (BS)	Green 17	58.3	21.4	13.6	23.1	28.1	55.5	1.91	536	N	N	N	N
60665R	Blue (RS)	Blue 28	57.6	24.0	10.5	17.1	31.9	58.9	1.79	568	N	N	N	N
60666R	Blue (GS)	Blue 36	52.8	29.1	14.5	19.7	32.7	51.2	1.52	494	N	N	N	N
60670R*	High IR Green	---	62.9	24.6	9.6	17.6	27.5	57.8	2.03	559	**	**	**	**

*Expected values based on formulation

* Not exportable outside of the USA

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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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