CHROME GREENS

Chrome Greens are intimate mixtures of Chrome Yellow and Iron Blue pigments. The shade of a Chrome Green is controlled by two factors: the proportion of blue to yellow and the greeness or redness of the yellow or blue used in its manufacture. The depth of the green is a function of the amount of blue it contains. Brightness or oliveness is determined by the shade of the constituent pigments; the redder the yellow or blue, the more olive the tone of the green.

Nitric and acetic acids were originally used to make the blue and yellow undertone types which are thus named the nitrate and acetate greens. The blue undertone types are brighter and cleaner than the yellow undertone greens and tend to have better light resistance. Yellow undertone greens, on the other hand, are stronger for a given depth of shade. All the Chrome Greens listed below are the nitrate type, which are recommended.

Chrome Greens exhibit very high hiding power in paint systems. They are good in exterior durability. Like Chrome Yellows, they darken on exposure to light. This trait has been corrected to a large degree in the more recent formulations of Chrome Greens, which have adequate lightfastness when used in full shades. They show significant fading in tints. Chrome Greens, because of their Iron Blue content, are sensitive to alkalies. See Technical Bulletin C-16.

Principal Standards

S-W Code No.	PC&C Code No.	Description
7800	11834	Light shade. Regular light standard. Contains 7.5% Iron Blue.
7810	11837	Medium shade. Contains 29.4% Iron Blue.

Special Standards

S-W Code No.	PC&C Code No.	Description
78 C 20	11231	Extra light shade. Microfast type. Slightly better lightfastness, lower strength. Contains 5.9% Iron Blue.
78 C 8	D-2810	Extra light shade. Special light shade for Deere. Lighter than 7800.
78 C 7	D-2776	Light shade. Less olive and darker than 7800.
78 C 23	D-3106	Light shade. Approximate shade of 7800. Special shade for Oliver. Lightfastness equal to 78 C 20.
78 C 6	--	Intermix for 7800.
78 A 2	--	Intermix for 78 C 7.

FLUSHED CHROME GREENS

S-W Code No.	PC&C Code No.	Pigment Name	Pigment Type	% Pigment	% Others	Wt./Gal.
Flushed in General Purpose Alkyd Varnish (37 C 18)						
(78 C 10)	FL-11-319	Chrome Green Light	78 C 20	74%	19% Resin Solids 7% (145)	18.4
--	FL-11-320	Chrome Green Medium	11235	65%	27% " " 8% "	14.5
(78 C 11)	FL-11-321	Chrome Green Deep	11835	55%	28% " " 17% "	11.8
Flushed in High Quality Alkyd Varnish (3853)						
(7806)	FL-11-216	Chrome Green Light	7800	70%	14% Resin Solids 16% (145)	17.1
(7826)	FL-11-217	Chrome Green Deep	11835	45%	24% " " 31% "	10.6
Flushed in Linseed Oil						
(78 C 14)	FL-11-107	Chrome Green Light	7800	75%	25% (2702)	19.7
(78 C 13)	FL-11-108	Chrome Green Medium	11235	70%	30% "	16.9
(78 C 15)	FL-11-109	Chrome Green Deep	11835	55%	45% "	12.4

CLASS 7800

Green Pigments, Inorganic

7800-7849 Chrome Greens (Lead Chromate and Iron Blue)

7850-7859 Chrome Oxide and Hydroxide

7860-7899 Other Inorganic Greens

0007-PMC-000000392

N15551.01

I. CHROME GREENS

A. Pigments

Number	Name	Iron Blue %	Oil Abs. S-W 419.2	Bulk G/100#	Remarks
Extra Light					
78C24	CP Extra Light	2.0	11	2.41	Lightest Available
78C8	CP Extra Light			2.42	Special 78C24
78C20	CP Extra Light	5.9	21	2.88	Microfast; try 78C24
78P2	Ferndale #3000			2.43	Los Angeles
Light					
7800	CP Light	7.5	13	2.66	
78C6	Intermix for 7800	7.5	13	2.66	
78C7	CP Light			2.67	Special 7800
78A2	Intermix for 78C7			2.67	
Medium					
7810	CP Medium	29.4	34	3.67	
78C21	CP Medium	29.4	27	3.86	Microfast; try 7810
78A3	Kentucky #594			3.31	Shingle Stain
78A4	Ferndale #3010			2.98	Shingle Stain
78C23	CP Medium (old D3106)			--	
Dark					
7820	CP Dark	50.0	30	4.67	Try to use 7810
78D4	Intermix for 7820	50.0	30	4.67	Acme
Acetate Type					
78C18	CP Dark (Acetate)		23	3.20	Use 7820
78C4	Intermix for 78C18		23	3.20	
78C19	CP Light (Acetate)		13.5	2.33	Use 7800
78C5	Intermix for 78C19		13.5	2.33	

B. Dispersions, Purchased

Number	Name	% Pig.	Shade	% Resin	#/G
78F2	CAB Lt. Green Chip				2.46

C. Dispersions, Manufactured

Number	%	Pigment	Vehicle NVM	Vehicle	#/G
7806	70	7800	14	(3853)	17.1
7826	45	7820	24	(3853)	10.6
78C10	74	78C20	19	(37C38)	18.4
78C11	55	7820	28	(37C18)	11.8
78C12	(17	7800	28	(37C18)	15.5
	(48	7810			
78C13	70	7810		(2702)	
78C14	75	7800		(2702)	
78C15	55	7820		(2702)	
78C22		Blue Green Collected Overspray			

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I. CHROME GREENS (Con't.)

D. PV&L Bases

Number	%	Pigment	Vehicle	#/G
BG8	53	7800	(2702) and (2539)	13.81
BG35	40.5	7820	(2702) and (2539)	-
BG919	47.2	7820	(37C42) and (4038)	
BG1214	70	7800	(3853)	17.46
BG1228	45	7820	(3853)	11.62
BG1308	50	7800	(3948)	13.42

Remarks

CHROME GREENS are intimate mixtures of Chrome Yellow and Iron Blue pigments. The depth of green is a function of the percentage of blue therein; brightness or oliveness is determined by the shade of the constituent yellow.

Chrome Greens exist in both blue and yellow undertones, called nitrate and acetate types, because these acids were originally used to produce the respective pigments. Blue undertone types are brighter and cleaner than the yellows, and tend to have better light resistance, while the yellows are stronger for a given depth of shade. Exclusive use of "nitrate" types is recommended.

Chrome Greens exhibit high hiding power and have excellent exterior durability. Like Chrome Yellows, they darken on exposure to light, although modern Chrome Greens are regarded as having adequate light fastness in full shades. They are alkali sensitive.

A complete range of colors may be obtained by blending the Chrome Greens available. However, use of 7820 should be limited to where a depth darker than than of 7810 is required.

II. CHROME OXIDES

A. Pigments

Number	Name	Oil Abs. S-W 419.2	Bulk G/100#	Remarks
7850	Chrome Oxide Green, 99.3%		2.36	

B. Dispersions, Purchased

Number	Name	%	Pigment	%	Resin	% NVM	Bulk	#/G
7855	RBH P744-E525	17.5	Chr.Hydr.	12.2	½"RS N/C	34.4		8.41
78A1	Pliolite 82S5	35	Chr.Oxide	65	S5	100	5.61	

Remarks

CHROME OXIDES are used primarily for exterior products where they show extreme durability.