

REPORT NO. 876

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PARLIN LABORATORY REPORT

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SUBJECT: INVESTIGATION OF THE CAN STABILITY PROPERTIES
OF EIGHTEEN SOLID AND METALLIC "DUGO" COLOR
FAMILIES.

PERIOD: AUGUST 1, 1939 TO OCTOBER 1, 1940

NOTEBOOK NO. 946

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N 29347

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SUBJECT: INVESTIGATION OF THE CAN STABILITY PROPERTIES
OF EIGHTEEN SOLID AND METALLIC "DUCO" COLOR
FAMILIES

INTRODUCTION

During the Spring of 1939 the laboratory developed eighteen solid and metallic color families consisting of several hundred shades of colors produced from blends of standard tinting enamels. The development of these families was undertaken so that the laboratory would be in a position to offer to the automotive trade a wide range of distinctive shades of known durability and can stability properties. The present report is concerned with the can stability properties of representative enamels selected from these families. Periodic examination of these enamels was made after three, six, nine, and twelve months' shelf storage at room temperature in quarter-pint cans.

GENERAL CONCLUSIONS

In general, all of the enamels investigated were found to possess satisfactory can stability properties. No objectionable gassing or can corrosion tendencies were exhibited by any of the families. With the exception of Color Family 18, a maroon metallic family blended from 253-033 maroon toner and 213-083 aluminum tinting enamels, no objectionable gelation was encountered. The false body developed by Color Family 18 could be broken down on agitation.

The color stability of all enamels was satisfactory. Greatest color change was exhibited by metallics, which seemed to undergo a slight loss in metallic effect, accompanied by slight darkening. This tendency was most evident in the darker metallic shades, particularly in the blues.

SPECIFIC CONCLUSIONS

Color Family 1 - Blue Metallic Color Family Blended from 253-059 Hamapo Blue, 253-056 Red Millori Blue, and 253-051 Millori Blue (213-36467 to 213-36572, and 213-36579 to 213-36632)

Several metallics in this family containing 253-059 exhibit very slight but unobjectionable darkening. Blends with 253-051 are somewhat more color stable. Most of this darkening appears due to a slight decrease in the metallic aluminum. All blends with 253-059 show definite flocculation, characteristically accompanied by very little or no settling. Blends with 253-051 show slightly more settling but are very satisfactory. All other can stability properties are excellent.

Twelve enamels (213-36579 to 213-36625) formulated with 253-059 Ramapo Blue were also tested for can stability with 253-056 Red Milori Blue substituted for the former. These enamels all exhibited definite, soft and unobjectionable settling after a year's storage. Color stability was satisfactory, although several enamels exhibited slight darkening due to the loss in aluminum described above. This tendency is slightly more pronounced with 253-056 than with 253-059 or 253-051.

Color Family 2 - Blue Metallic Color Family Blended from 253-051 Milori Blue and 253-059 Ramapo Blue with 253-0627 Chrome Yellow (213-36472 to 213-36578 and 213-36633 to 213-36685)

The extent of settling of all these enamels was slight or very slight. Color stability is satisfactory in all instances, although a number of enamels containing 253-051 or 253-059 show a slight loss in aluminum content accompanied by a slight darkening. This tendency is generally most noticeable in the darker colors. Enamels formulated with 253-059 all show characteristic flocculation.

Color Family 3 - Blue Solid Color Family Blended from 253-051 Milori Blue and 253-0627 Chrome Yellow (253-37328 to 253-37437)

Those enamels in this series which contain 50% or more of 253-0953 show slight or definite settling accompanied by a cake of a gum-like consistency. As this cake can be stirred in, it is not considered objectionable. All enamels possess good color stability. Two enamels formulated with the maximum amount of 253-020, however, have darkened very slightly but not to any objectionable extent.

Color Family 4 - Blue Solid Color Family Blended from 253-059 Ramapo Blue and 253-0627 Chrome Yellow (253-37438 to 253-37537)

Only very slight settling was exhibited by this series. What little cake was formed had a gummy, thick consistency that required thorough stirring. Color stability was very good. After twelve months' storage, slight rust spotting was noted in the case of several enamels, although

no trend in this direction developed which could be traced to the presence of any particular tinting enamel. All other can stability properties were very good.

Color Family 5 - Green Metallic Color Family Blended from
253-0751 Chromium Tetrahydroxide Tinting Enamel (213-
36092 to 213-36212)

Practically all of these enamels exhibited definite settling of aluminum and TiO_2 after six months. However, the cake was soft and as no further settling developed, this property was considered satisfactory. Color stability was good, although these metallics exhibited the slight darkening due to loss of aluminum already described in the case of the blue metallics. No can corrosion or gelation was observed. In several instances slight gassing was noted, but never in more than one instance for any particular enamel. Practically all of the cans of this family, when opened after storage, gave off a pungent, unpleasant odor probably due to nitrogenous decomposition products. However, no objectionable fumes or pressure developed in any instance.

Color Family 6 - Green Solid Color Family Blended from 253-
0751 Chromium Tetrahydroxide Green, 253-064 Ferrite
Yellow and 253-040 Burnt Umber (253-37538 to 253-37637)

Practically all of these enamels exhibited definite settling after six months, but further storage caused no objectionable increase. The soft cake, which was easily redispersed by stirring, consisted mainly of green chromium tetrahydroxide pigment. Color stability was excellent in every case, as were all other can stability properties tested.

Color Family 7 - Green Solid Color Family Blended from 253-
0751 Chromium Tetrahydroxide Tinting Enamel with 253-059
Rampage Blue and 253-020 Bone Black (253-37638 to 253-37726)

This family was identical in can stability properties with Color Family 6. Slight but unobjectionable color change was noted in the case of two enamels, 253-37704 and 253-37717.

Color Family 8 - Solid Green Color Family Blended from 253-051 Milori Blue and 253-0627 or 253-0628 Chrome Yellow Tinting Enamels (253-37727 to 253-37836)

Increasing amounts of both 253-0627 and 253-0628 were accompanied by an appreciable increase in the extent of settling and the hardness of the cake formed. The worst settling produced a gummy yellow cake which, however, was satisfactorily reincorporated into the enamel by thorough stirring. In all other respects the can stability of this family was excellent.

Color Family 9 - Green Metallic Color Family Blended from 253-051 Milori Blue and 253-0627 Chrome Yellow Tinting Enamels (213-36686 to 213-36781)

Most of these enamels exhibited definite settling after three months, and the rest reached this state after six months. Increasing amounts of 253-0627 increased the extent of this settling and the hardness of the cake, although in no case was settling considered objectionable. Several enamels were found to be somewhat darker in color due to the loss of aluminum content characteristic of metallics, but in all cases color was considered satisfactory.

Color Family 10 - Dark Gray Metallic Color Family blended from 253-0913 TiO₂ White, 253-020 Bone Black, 253-0751 Chromium Tetrahydroxide, and 253-059 Ramapo Blue Tinting Enamels (213-36304 to 213-36383)

After twelve months' storage all of these enamels showed satisfactory slight or definite settling, characterized by a soft, easily dispersed cake of aluminum. The five border enamels containing the most 253-059 were all slightly blue-greener and darker after a year, due largely to aluminum loss. In no case was the amount of color change unsatisfactory. With respect to other can stability properties, this family is excellent.

Color Family 11 - Light Gray Metallic Color Family Blended from 253-0953 TiO₂ White, 253-020 Bone Black, 253-040 Burnt Umber, and 253-0314 Ferric Oxide Tinting Enamels (213-36213 to 213-36303)

All of these enamels exhibited satisfactory settling, developing nothing worse than a soft, definite aluminum

cake which could be easily stirred in. Color stability was excellent, two enamels with 253-040 undergoing slight but unobjectionable darkening. All other can stability properties were satisfactory.

Color Family 12 - Blue-Green Gray Solid Color Family Blended from 253-0953 TiO₂ White, 253-020 Bone Black, 253-059 Ramapo Blue, and 253-0751 Chromium Tetrahydroxide Green Tinting Enamels (253-37231 to 253-37327).

After one year's storage, settling in this family ranged from a definite, gummy white cake (where over 60% 253-0953 was used) down to no settling (less than 30% 253-0953). Slight rust spotting was noted in the case of 253-37239, 253-37262, and 253-37298. Color stability and other properties were excellent.

Color Family 13 - Light Gray Solid Color Family Blended from 253-0953 TiO₂ White, 253-020 Bone Black, 253-040 Burnt Umber, and 253-0314 Ferric Oxide Tinting Enamels (253-37121 to 253-37229).

After three months' storage, practically all of these enamels showed a gummy, definite cake, which required thorough mixing to disperse. Increasing 253-0953 was accompanied by more pronounced settling but to a less appreciable extent than in Color Family 12. Color stability and other properties were excellent.

Color Family 14 - Brown Metallic Color Family Blended from 253-040 Burnt Umber and 253-0314 Ferric Oxide Tinting Enamels (213-36001 to 213-36088).

All of these enamels showed definite settling after six months' storage. No further increase in settling developed on longer standing, however. The cake was soft, easily dispersed, and consisted mainly of aluminum and some ferric oxide wherever the latter appeared in the formulas. Color stability and other can stability properties were excellent.

Color Family 15 - Brown Solid Color Family Blended from 253-040 Burnt Umber and 253-0324 Ferric Oxide Tinting Enamels (253-37001 to 253-37119)

All of these enamels showed definite settling after six months, but no further appreciable increase in settling developed. Enamels formulated with increasing amounts of 253-040 exhibited an increasing tendency to form a considerable brown cake, although the latter was very soft and easily dispersed, and was considered unobjectionable. Increasing amounts of 253-0953 produced a smaller but harder cake, requiring thorough stirring. Color and other can stability properties were excellent.

Color Family 16 - Cream Solid Color Family Blended from 253-064 Ferrite Yellow Tinting Enamel (253-37837 to 253-37891)

After three months' storage, all these colors had developed a slight but hard cake requiring thorough stirring. Neither the volume nor toughness of this cake increased appreciably on further storage, however, and was considered unobjectionable. The cake consisted mainly of ferrite yellow pigment from 253-064. Three enamels formulated with over 90% 253-0953 underwent slight reddening in color. The extent of this drift was very slight, however, and the color stability and other can stability properties of the family, in general, were excellent.

Color Family 17 - Maroon Solid Color Family Blended from 253-0373 and 253-0374 Victoria Maroon Tinting Enamels (253-33045-M to 253-33054-M)

Settling was satisfactory in this family, enamels containing 253-0373 settling slightly more than those containing 253-0374. Most of the enamels lightened very slightly in color, this tendency appearing very slightly more in enamels containing 253-0374. Other can stability properties were excellent.

Color Family 18 - Maroon Metallic Color Family Blended from 253-033 Maroon Toner (213-33039-M to 213-33044-M)

All of these enamels underwent very bad false bodying after three months' storage. This gelation was

readily broken down with slight agitation. While all colors reddened to a very slight extent, this drift was not considered objectionable. Settling and other can stability properties were excellent.

EXPERIMENTAL

The eighteen color families were originally developed in the 242 and 202 lines by Messrs. J. H. Groves and L. B. Wortley. In the present investigation, 253 line tinting enamels were substituted for the 242 line enamels called for in the original formulations; where 202-085 was originally called for, 213-083 has been used, and E-613 has been substituted for E-605. Photostat copies of all color family formulas are in the possession of the Farlin Pigment Dispersion Laboratory.

All enamels were prepared from plant lots of tinting enamels, specific serials having been listed in Notebook No. 946. Each color was stored in four quarter-pint cans, one of which was examined after three, six, nine, and twelve months' shelf storage at room temperature. Settling, gelation, gassing, and can corrosion were determined by careful inspection of the can contents and the can interior after washing out with T-3730 thinner. Two 4" x 6" pasteboard color chips were sprayed before storage of the enamels, and color change was determined by comparison of these chips with others which had been freshly sprayed with the stored enamels.

HDP:DMZ
9/19/42

COLOR FAMILY 1

BLUE METALLICS BLENDED FROM 253-056, 253-051, AND 253-059
(213-3657 TO 213-3672 AND 213-3679 TO 213-3682)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color Stability
213-36579 (253-056)	3 months	O.K.	None	Sl. soft	None	O.K.
	6 "	O.K.	None	Def. soft (wh. + Al)	"	O.K.
	12 "	O.K.	None	Def. soft (wh. + Al)	"	O.K.
213-36582 (253-056)	3 "	O.K.	None	V. slight soft	"	O.K.
	6 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. soft (wh. + Al)	"	V. sl. darker
213-36585 (253-056)	3 "	O.K.	"	V. slight soft	"	O.K.
	6 "	O.K.	"	Sl. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. soft (wh. + Al)	"	V. sl. darker
213-36593 (253-056)	3 "	O.K.	"	Sl. soft	"	O.K.
	6 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Sl. soft (wh. + Al)	"	Trace darker
213-36595 (253-056)	3 "	O.K.	"	Sl. soft	"	O.K.
	6 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Sl. gummy (wh. + Al)	"	O.K.
213-36598 (253-056)	3 "	O.K.	"	V. slight soft	"	O.K.
	6 "	O.K.	"	Sl. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. gummy (wh. + Al)	"	V. sl. darker
213-36606 (253-056)	3 "	O.K.	"	Sl. soft	"	O.K.
	6 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
213-36608 (253-056)	3 "	O.K.	"	V. slight soft	"	O.K.
	6 "	O.K.	"	Sl. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
213-36612 (253-056)	3 "	O.K.	"	V. slight soft	"	O.K.
	6 "	O.K.	"	Sl. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
213-36619 (253-056)	3 "	O.K.	"	Sl. soft	"	O.K.
	6 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. soft (wh. + Al)	"	V. sl. darker
213-36622 (253-056)	3 "	O.K.	"	Sl. soft	"	O.K.
	6 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
	12 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
213-36625 (253-056)	3 "	O.K.	"	V. slight soft	"	O.K.
	6 "	O.K.	"	Sl. soft (wh. + Al)	"	V. sl. darker
	12 "	O.K.	"	Def. soft (wh. + Al)	"	O.K.
213-36579 (253-059)	3 "	O.K.	"	None	"	O.K.
	6 "	O.K.	"	Def. soft (Blue)	"	O.K.
	12 "	O.K.	"	V. slight (Blue)	"	V. slightly red
213-36582 (253-059)	3 "	O.K.	"	None	"	O.K.
	6 "	O.K.	V. Slight	Sl. soft (Blue)	"	O.K.
	12 "	O.K.	None	Sl. soft (Blue)	"	V. slightly red
213-36585 (253-059)	3 "	O.K.	None	None	"	O.K.
	6 "	O.K.	"	V. sl. soft (Blue)	"	O.K.
	12 "	O.K.	"	V. sl. soft (Blue)	"	O.K.
213-36593 (253-059)	3 "	O.K.	"	None	"	O.K.
	6 "	O.K.	V. Slight	Sl. soft (Blue)	"	O.K.
	12 "	O.K.	None	V. sl. soft (Blue)	"	V. slightly red
213-36595 (253-059)	3 "	O.K.	None	None	"	O.K.
	6 "	O.K.	V. Slight	Sl. soft (Blue)	"	O.K.
	12 "	O.K.	None	V. sl. soft (Blue)	"	V. slightly red
213-36598 (253-059)	3 "	O.K.	None	None	"	O.K.
	6 "	O.K.	V. Slight	V. sl. soft (Blue + Al)	"	V. sl. darker
	12 "	O.K.	None	V. sl. soft (Blue + Al)	"	V. sl. darker
213-36606 (253-059)	3 "	O.K.	None	None	"	O.K.
	6 "	"	"	V. sl. soft (Blue + Al)	"	O.K.
	12 "	"	"	V. sl. soft (Blue + Al)	"	O.K.
213-36608 (253-059)	3 "	"	"	None	"	O.K.
	6 "	"	"	V. sl. soft (Al)	"	O.K.
	12 "	"	"	V. sl. soft (Al)	"	O.K.
213-36612 (253-059)	3 "	"	"	None	"	O.K.
	6 "	"	"	V. sl. soft (Al)	"	O.K.
	12 "	"	"	V. sl. soft (Al)	"	V. sl. darker
213-36619 (253-059)	3 "	"	"	None	"	O.K.
	6 "	"	"	V. sl. soft (Al)	"	O.K.
	12 "	"	"	V. sl. soft (Al)	"	V. sl. darker
213-36622 (253-059)	3 "	"	"	None	"	O.K.
	6 "	"	"	V. sl. soft (Al)	"	O.K.
	12 "	"	"	V. sl. soft (Al)	"	V. sl. darker

COLOR FAMILY 1 (continued)

<u>Number</u>	<u>Exposure</u>	<u>Gen Cor- rosion</u>	<u>Gassing</u>	<u>Settling</u>	<u>Gelation</u>	<u>Color Stability</u>
213-36625 (253-059)	3 months	O.K.	None	None	None	O.K.
	6 "	"	"	"	"	O.K.
	12 "	"	"	"	"	V.sl.darker
213-36464	3 "	"	"	V.slight soft	"	O.K.
	6 "	"	"	V.slight soft (wh. + Al)	"	O.K.
	9 "	"	"	V.slight soft (wh. + Al)	"	O.K.
	12 "	"	"	Slight soft (wh. + Al)	"	V.sl.darker
213-36467	3 "	"	"	V.slight soft	"	O.K.
	6 "	"	"	V.slight soft (wh. + Al)	"	O.K.
	9 "	"	"	V.slight soft (wh. + Al)	"	O.K.
	12 "	"	"	Slight soft (wh. + Al)	"	O.K.
213-36471	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	O.K.
	9 "	"	"	Slight soft (Blue)	"	O.K.
	12 "	"	"	Slight soft (Blue)	"	O.K.
213-36493	3 "	"	"	Slight soft	"	O.K.
	6 "	"	"	V.slight soft (wh. + Al)	"	O.K.
	9 "	"	"	V.slight soft (wh. + Al)	"	O.K.
	12 "	"	"	Slight soft (wh. + Al)	"	O.K.
213-36496	3 "	"	"	V.slight soft	"	O.K.
	6 "	"	"	V.slight soft (Al)	"	O.K.
	9 "	"	"	Slight soft (Al)	"	O.K.
	12 "	"	"	Slight soft (Al)	"	V.sl.darker
213-36499	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	O.K.
	9 "	"	"	"	"	O.K.
	12 "	"	"	"	"	O.K.
213-36522	3 "	"	"	V.slight soft	"	O.K.
	6 "	"	"	V.slight soft (wh.)	"	O.K.
	9 "	"	"	Slight soft (wh. + Al)	"	O.K.
	12 "	"	"	Slight soft (wh. + Al)	"	O.K.
213-36525	3 "	"	"	None	"	O.K.
	6 "	"	"	V.slight soft (Al)	"	O.K.
	9 "	"	"	Slight soft (wh. + Al)	"	O.K.
	12 "	"	"	Slight soft (wh. + Al)	"	O.K.
213-36528	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	O.K.
	9 "	"	"	V.slight (Al)	"	O.K.
	12 "	"	"	Slight (Al)	"	O.K.
213-36551	3 "	"	"	Slight soft	"	O.K.
	6 "	"	"	Slight soft (wh. + Al)	"	O.K.
	9 "	"	"	Def.hard (wh. + Al)	"	O.K.
	12 "	"	"	Def.hard (wh. + Al)	"	V.sl.darker
213-36554	3 "	"	"	V.slight soft	"	O.K.
	6 "	"	"	V.sl.soft (Al)	"	O.K.
	9 "	"	"	V.sl.soft (Al)	"	O.K.
	12 "	"	"	Sl.soft (Al)	"	O.K.
213-36557	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	O.K.
	9 "	"	"	V.slight (Al)	"	O.K.
	12 "	"	"	Slight (Al)	"	O.K.

HBP:DMZ
10/10/40

COLOR FAMILY 2

BLUE METALLIC COLOR FAMILY BLENDED FROM 253-061 MILORI
BLUE, 253-059 RAKAPO BLUE, AND 253-0627 CHROME YELLOW
(213-36472 TO 213-36578 AND 213-36631 TO 213-36685)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color Stability
213-36472	3 months	O.K.	None	V.Slight-soft	None	O.K.
	6 "	"	"	None	"	"
	12 "	"	"	"	"	"
213-36474	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight (Al)	"	"
	9 "	"	"	V.slight (Al)	"	"
	12 "	"	"	V.slight (Al)	"	V.sl.darker
213-36477	3 "	"	"	Slight-soft	"	O.K.
	6 "	"	"	V.slight-soft (wh. + Al)	"	V.sl.darker
	9 "	"	"	Slight-soft (wh. + Al)	"	O.K.
	12 "	"	"	Slight-soft (wh. + Al)	"	V.sl.darker
213-36501	3 "	"	"	V.slight-soft	"	O.K.
	6 "	"	"	None	"	"
	9 "	"	"	"	"	"
	12 "	"	"	"	"	"
213-36503	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (wh. + Al)	"	"
	9 "	"	"	V.slight-soft (wh. + Al)	"	"
	12 "	"	"	V.slight-soft (wh. + Al)	"	"
213-36506	3 "	"	"	Slight-soft	"	"
	6 "	"	"	Slight-soft (wh. + Al)	"	"
	9 "	"	"	Slight-soft (wh. + Al)	"	"
	12 "	"	"	Slight-soft (wh. + Al)	"	"
213-36529	3 "	"	"	None	"	"
	6 "	"	"	"	"	"
	9 "	"	"	"	"	V.sl.darker
	12 "	"	"	"	"	V.sl.darker
213-36532	3 "	"	"	V.slight-soft	"	O.K.
	6 "	"	"	V.slight-soft (wh. + Al)	"	V.sl.darker
	9 "	"	"	V.slight-soft (wh. + Al)	"	V.sl.darker
	12 "	"	"	V.slight-soft (wh. + Al)	"	V.sl.darker
213-36535	3 "	"	"	Slight-soft	"	O.K.
	6 "	"	"	Slight-soft (wh. + Al)	"	V.sl.darker
	9 "	"	"	Slight-soft (wh. + Al)	"	O.K.
	12 "	"	"	Slight-soft (wh. + Al)	"	V.sl.darker
213-36558	3 "	"	"	V.slight-soft	"	O.K.
	6 "	"	"	None	"	"
	9 "	"	"	V.slight-soft	"	"
	12 "	"	"	V.slight-soft	"	"
213-36561	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (Al)	"	"
	9 "	"	"	V.slight-soft (Al)	"	"
	12 "	"	"	V.slight-soft (Al)	"	"
213-36564	3 "	"	"	Slight-soft	"	"
	6 "	"	"	Slight-soft (Al + wh.)	"	"
	9 "	"	"	Slight-soft (Al + wh.)	"	"
	12 "	"	"	V.Slight (Al + wh.)	"	V.sl.darker
213-36533	3 "	"	"	V.slight-soft	"	O.K.
	6 "	"	"	V.slight-soft	"	"
	9 "	"	"	V.slight-soft	"	V.sl.darker
	12 "	"	"	V.slight-soft	"	V.sl.darker
213-36535	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	"
	9 "	"	"	"	"	V.sl.darker
	12 "	"	"	Slight (Al)	"	V.sl.darker
213-36538	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight (Al)	"	"
213-36540	3 "	"	"	None	"	"
	6 "	"	"	"	"	"
	9 "	"	"	"	"	V.sl.darker
	12 "	"	"	Slight (Al)	"	Sl. darker
213-36548	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight (Al)	"	V.sl.darker
213-36552	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight (Al)	"	V.sl.darker
213-36559	3 "	"	"	V.slight-soft	"	O.K.
	6 "	"	"	None-soft	"	"
	9 "	"	"	None-soft	"	"
	12 "	"	"	Slight-soft (Al)	"	V.sl.darker
213-36562	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight (Al)	"	V.sl.darker
213-36565	3 "	"	"	V.slight-soft	"	O.K.
	6 "	"	"	None	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight (Al)	"	"
213-36573	3 "	"	"	None	"	"
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight (Al)	"	"
213-36575	3 "	"	"	None	"	"
	6 "	"	"	V.sl-soft (Green)	"	"
	9 "	"	"	V.sl-soft (Green)	"	"
	12 "	"	"	Definite (Al)	"	"
213-36578	3 "	"	V.Slight	V.slight-soft	"	"
	6 "	"	None	None	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight (Al)	"	"

HDP:DMZ
2/5/41

BLUE SOLID COLOR FAMILY BLENDED FROM 253-051
MILORI BLUE AND 253-0627 CHROME YELLOW
(253-37328 TO 253-37437)

Number	Exposure	Can Cor- rosion	Cassing	Settling	Gelation	Color
253-37328	3 months	O.K.	None	None	None	Very slight brown
	6 "	"	"	"	"	O.K.
	12 "	"	"	Very Slight	"	V.slight brown
253-37331	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	"	"	"
253-37333	3 "	"	"	V.slight (soft)	"	"
	6 "	"	"	None	"	"
	9 "	"	"	"	"	"
	12 "	"	"	"	"	V.sl.darker
253-37335	3 "	"	"	Very Slight	"	O.K.
	6 "	"	"	V.slight-soft (wh.)	"	"
	9 "	"	"	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37337	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (wh.)	"	"
	9 "	"	"	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37339	3 "	"	"	V.slight-soft	"	"
	6 "	"	Trace	V.slight-soft (wh.)	"	"
	9 "	"	None	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37343	3 "	"	"	None	"	Sl. red
	6 "	"	"	"	"	O.K.
	9 "	"	"	"	"	"
	12 "	"	"	"	"	V.sl.brown
253-37355	3 "	"	"	V.slight-soft	"	O.K.
	6 "	"	"	Trace-soft (wh.)	"	"
	9 "	"	"	Trace-soft (wh.)	"	"
	12 "	"	"	Trace-soft (wh.)	"	"
253-37357	3 "	"	"	V.slight-soft (wh.)	"	"
	6 "	"	"	V.slight-soft (wh.)	"	"
	9 "	"	"	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37359	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (wh.)	"	"
	9 "	"	"	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37363	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (wh.)	"	"
	9 "	"	"	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37364	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	Slight - harder (wh.)	"	V.sl.bluer
	9 "	"	"	Slight wh. gummy	"	O.K.
	12 "	"	"	slight wh. gummy	"	"
253-37377	3 "	"	"	None	"	O.K.
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	"	"	"
253-37379	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (wh.)	"	V.sl.bluer
	9 "	"	"	V.slight-soft (wh.)	"	O.K.
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37382	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (wh.)	"	"
	9 "	"	"	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37384	3 "	"	"	Slight-soft	"	"
	6 "	"	"	V.slight-soft (wh.)	"	"
	9 "	"	"	V.slight-soft (wh.)	"	"
	12 "	"	"	V.slight-soft (wh.)	"	"
253-37386	3 "	"	"	Slight-soft	"	"
	6 "	"	V.Slight	V.slight-soft (wh.)	"	"
	9 "	"	None	V.sl.gummy (wh.)	"	"
	12 "	"	"	V.sl.gummy (wh.)	"	"
253-37388	3 "	"	"	Slight plus-soft	"	"
	6 "	"	"	Definite plus-soft (wh.)	"	"
	9 "	"	"	Slight-gummy (wh.)	"	"
	12 "	"	"	Slight-gummy (wh.)	"	"
253-37392	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	Trace (wh.)	"	"
	9 "	"	"	Trace (yel.)	"	"
	12 "	"	"	Trace (yel.)	"	"
253-37394	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (yel.)	"	"
	9 "	"	"	Trace (yel.)	"	"
	12 "	"	"	Trace (yel.)	"	"
253-37406	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (yel. + wh.)	"	"
	9 "	"	"	Trace (yel. + wh.)	"	"
	12 "	"	"	Trace (yel. + wh.)	"	"
253-37408	3 "	"	"	Slight-soft	"	"
	6 "	"	"	Slight-soft (yel.)	"	"
	9 "	"	"	Trace (yel.)	"	"
	12 "	"	"	Trace (yel.)	"	"
253-37411	3 "	"	"	Slight-soft	"	"
	6 "	"	"	Slight-soft (wh. + yel.)	"	V.sl.blue
	9 "	"	"	Slight-soft (wh. + yel.)	"	O.K.
	12 "	"	"	Slight-soft (wh. + yel.)	"	O.K.

COLOR FAMILY 3 (continued)

<u>Number</u>	<u>Exposure</u>	<u>Can Cor- rosion</u>	<u>Gassing</u>	<u>Settling</u>	<u>Gelation</u>	<u>Color</u>
253-37413	3 months	O.K.	None	Definite-sl. hard	None	O.K.
	6 "	"	"	Definite-soft (yel.)	"	"
	9 "	"	"	Definite-soft (yel.)	"	"
	12 "	"	"	Definite-soft (yel.)	"	"
253-37426	3 "	"	"	V.slight-soft	"	"
	6 "	"	"	V.slight-soft (yel.)	"	"
	9 "	"	"	Trace-soft (yel.)	"	"
	12 "	"	"	Slight-soft (yel.)	"	"
253-37428	3 "	"	"	Slight-soft	"	"
	6 "	"	"	Slight-soft (yel.)	"	V.slightly bluer
	9 "	"	"	V.slight-soft (yel.)	"	O.K.
	12 "	"	"	Slight-soft (yel.)	"	"
253-37431	3 "	"	"	Slight-soft	"	"
	6 "	"	"	V.slight-soft (yel.)	"	"
	9 "	"	"	V.slight-soft (yel.)	"	"
	12 "	"	"	Slight-soft (yel.)	"	"
253-37433	3 "	"	"	Slight-soft	"	"
	6 "	"	"	V.slight-soft (yel.)	"	"
	9 "	"	"	V.slight-soft (yel.)	"	"
	12 "	"	"	Slight-soft (yel.)	"	"
253-37435	3 "	"	"	Slight plus-soft	"	"
	6 "	"	"	Slight plus-soft (yel.)	"	"
	9 "	"	"	Slight plus-soft (yel.)	"	"
	12 "	"	"	Slight plus-soft (yel.)	"	"
253-37437	3 "	"	"	Definite-sl. hard	"	"
	6 "	"	"	Definite-sl. hard (yel.)	"	"
	9 "	"	"	Slight-sl. hard (yel.)	"	"
	12 "	"	"	Definite-sl. hard (yel.)	"	"

HDP:DM2
3/10/41

COLOR FAMILY 4

BLUE SOLID COLOR FAMILY BLENDING FROM 253-059
RAMAPO BLUE AND 253-0627 CHROME YELLOW
(253-37438 TO 253-37537)

Number	Exposure	Can Cor- rosion	Cassings	Settling	Gelation	Color
253-37439	3 months	O.K.	None	V.slight (wh.)	None	O.K.
	12 months	"	"	V.slight (wh.)	"	"
	18 months	"	"	V.slight (wh.)	"	"
253-37442	3 months	"	"	Slight (wh.)	"	"
	12 months	"	"	Slight (wh.)	"	"
	18 months	Sl.rust spotting	"	V.slight (wh.)	"	"
253-37444	3 months	O.K.	"	Slight-soft (wh.)	"	"
	12 months	"	"	Slight-soft (wh.)	"	"
	18 months	"	"	V.slight-soft (wh.)	"	"
253-37446	3 months	"	"	Slight-sl.hard (wh.)	"	"
	12 months	"	"	Slight-sl.hard (wh.)	"	"
	18 months	"	"	V.slight-soft (wh.)	"	"
253-37448	3 months	"	"	Slight + -Sl.hard (wh.)	"	"
	12 months	"	"	Slight + -Sl.hard (wh.)	"	"
	18 months	"	"	V.slight-soft (wh.)	"	"
253-37462	3 months	"	"	V.slight-gummy (wh.)	"	"
	12 months	"	"	V.slight (wh.)	"	"
	18 months	"	"	V.slight (wh.)	"	"
253-37464	3 months	"	"	V.slight (wh.)	"	"
	12 months	"	"	Slight-soft (wh.)	"	"
	18 months	"	"	V.slight-soft (wh.)	"	"
253-37466	3 months	"	"	V.slight-gummy (wh.)	"	"
	12 months	"	"	V.slight + (wh.)	"	"
	18 months	"	"	Definite-soft (wh.)	"	"
253-37468	3 months	"	"	V.slight-soft (wh.)	"	"
	12 months	Trace	"	V.slight-soft (wh.)	"	"
	18 months	O.K.	"	V.slight-gummy (wh.)	"	"
253-37471	3 months	O.K.	"	Slight (wh. + blue)	"	"
	12 months	"	"	Slight-soft (wh. + blue)	"	"
	18 months	"	"	Slight-soft (wh. + blue)	"	"
253-37484	3 months	"	"	V.slight-gummy (wh. + blue)	"	"
	12 months	"	"	V.slight-soft (wh.)	"	"
	18 months	"	"	V.slight-soft (wh.)	"	V.sl.bluer
253-37486	3 months	"	"	V.slight-soft (wh.)	"	V.sl.bluer
	12 months	"	"	V.slight-soft (wh.)	"	V.sl.bluer
	18 months	"	"	V.slight-gummy (wh.)	"	O.K.
253-37488	3 months	"	"	Slight-soft (wh.)	"	"
	12 months	"	"	Slight-soft (wh.)	"	"
	18 months	"	"	V.slight-soft (wh.)	"	"
253-37492	3 months	"	"	Slight-gummy (wh.)	"	"
	12 months	"	"	Slight + -Sl.hard (wh.)	"	"
	18 months	"	"	Slight + -Sl.hard (wh.)	"	"
253-37494	3 months	"	"	V.slight-sl.hard (wh.)	"	"
	12 months	"	"	Slight-gummy (wh.)	"	"
253-37496	3 months	"	"	Def.-sl.hard (wh.)	"	"
	12 months	"	"	Def.-sl.hard (wh.)	"	"
	18 months	Trace	"	V.slight-hard (wh.)	"	V.sl.darker
253-37506	3 months	O.K.	"	Slight-gummy (wh.)	"	O.K.
	12 months	"	"	Def.-sl.hard (wh. + blue)	"	"
	18 months	Trace	"	Def.-sl.hard (wh. + blue)	"	V.slightly darker
253-37508	3 months	O.K.	"	Slight-gummy (wh. + blue)	"	O.K.
	12 months	"	"	V.slight (wh.)	"	"
	18 months	Sl.rust spots	"	Slight (wh.)	"	Sl.bluer
253-37512	3 months	O.K.	"	Slight (wh.)	"	Sl.bluer
	12 months	"	"	V.slight (wh.)	"	O.K.
	18 months	"	"	V.slight-gummy (wh.)	"	"
253-37514	3 months	"	"	Slight-soft (wh.)	"	"
	12 months	"	"	Slight-soft (wh.)	"	"
	18 months	"	"	V.slight-soft (wh.)	"	"
253-37516	3 months	"	"	V.slight-soft (wh.)	"	"
	12 months	"	"	V.slight-soft (wh.)	"	"
	18 months	"	"	V.slight-gummy (wh.)	"	"
253-37528	3 months	"	"	Slight-soft (wh.)	"	"
	12 months	"	"	V.slight (wh. + yel.)	"	"
	18 months	Sl.rust spots	"	V.slight (wh. + yel.)	"	"
253-37531	3 months	O.K.	"	V.slight (wh. + yel.)	"	"
	12 months	"	"	V.slight (wh. + yel.)	"	"
	18 months	"	"	V.slight (wh. + yel.)	"	"
253-37533	3 months	"	"	V.slight (wh. + yel.)	"	"
	12 months	"	"	Slight (wh. + yel.)	"	"
	18 months	"	"	V.slight (wh. + yel.)	"	"
253-37535	3 months	"	"	V.slight-gummy (wh. + yel.)	"	"
	12 months	"	"	Trace (yel.)	"	"
	18 months	"	"	None	"	"
253-37537	3 months	"	"	None	"	Sl.darker
	12 months	"	"	None	"	O.K.
	18 months	"	"	V.slight (yel.)	"	"
		"	"	V.slight (yel.)	"	"
		"	"	V.slight (yel.)	"	"
		"	"	V.slight (yel.)	"	"

HSP:242
3/11/41

DUP030001082

COLOR FAMILY 5

GREEN METALLIC COLOR FAMILY BLENDED FROM 253-0751 CHROMIUM TETRAHYDROXIDE WITH 253-064 FERRITE YELLOW AND 253-053 ULTRAMARINE BLUE (213-36092 TO 213-36178)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
213-36092	3 months	O.K.	None	Definite-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	None	O.K.
213-36094	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36096	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	V.sl.bluer
213-36098	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	O.K.
213-36101	3 "	"	None	Definite-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36103	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	Sl.darker O.K.
213-36116	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36121	3 "	"	"	Definite-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	O.K.
213-36123	3 "	"	"	Definite-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	O.K.
213-36125	3 "	"	"	Slight-soft Slight-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36127	3 "	"	"	V.slight-soft (Al) Slight-soft (Al) Definite-soft (Al) Definite-soft (Al)	"	"
213-36129	3 "	"	"	Slight-soft Slight-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36132	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36147	3 "	"	"	Slight-soft Slight-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36149	3 "	"	"	Definite-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36152	3 "	"	"	Definite-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36154	3 "	"	"	Slight + - soft Slight + - soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	"
213-36169	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	V.slightly lighter
213-36172	3 "	"	"	Slight-soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	O.K.
213-36174	3 "	"	V.Slight None	Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	V.sl.lighter
213-36176	3 "	"	"	Slight + - soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	V.sl.lighter O.K.
213-36178	3 "	"	"	Slight + - Soft Definite-soft (Al + wh.) Definite-soft (Al + wh.) Definite-soft (Al + wh.)	"	O.K.

COLOR FAMILY 5

<u>Number</u>	<u>Exposure</u>	<u>Can Cor- rosion</u>	<u>Gassing</u>	<u>Settling</u>	<u>Gelation</u>	<u>Color</u>
213-36181	3 months	O.K.	None	Slight-soft	None	O.K.
	6 "	"	"	Slight-soft (Al + wh.)	"	"
	9 "	"	"	Slight-soft (Al + wh.)	"	"
	12 "	"	"	Definite-soft (Al + wh.)	"	"
213-36183	3 "	"	"	Slight-soft	"	"
	6 "	"	"	Slight + - soft (Al + wh.)	"	"
	9 "	"	"	Slight + - soft (Al + wh.)	"	"
	12 "	"	"	Slight-soft (Al + wh.)	"	"
213-36192	3 "	"	"	Slight-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al + wh.)	"	"
	9 "	"	"	Definite-soft (Al + wh.)	"	"
	12 "	"	"	Definite-soft (Al + wh.)	"	"
213-36201	3 "	"	"	Slight-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al + wh.)	"	"
	9 "	"	"	Definite-soft (Al + wh.)	"	"
	12 "	"	"	Definite-soft (Al + wh.)	"	"
213-36203	3 "	"	"	Slight-soft (Al)	"	V. el. greener and cleaner
	6 "	"	"	Definite-soft (Al)	"	O.K.
	9 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36205	3 "	"	"	Slight + - soft (Al)	"	O.K.
	6 "	"	"	Definite-soft (Al)	"	"
	9 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36217	3 "	"	"	Slight-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	9 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36219	3 "	"	"	Slight-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	9 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36212	3 "	"	"	Slight-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	9 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"

BDP:DMZ
7/11/71

GREEN SOLID COLOR FAMILY BLENDED FROM 253-0751 CHROMIUM
TETRAHYDROXIDE GREEN, 253-064 FERRITE YELLOW AND 253-040
BURNED UMBER (253-37538 TO 253-37637).

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
253-37538	3 months	O.K.	None	Slight-soft (Gr.)	None	O.K.
	6 "	"	"	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37541	3 "	"	"	Definite-soft (Gr.)	"	"
	6 "	"	"	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37543	3 "	"	"	Slight-soft (Gr.)	"	"
	6 "	"	"	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37545	3 "	"	"	Definite-soft (Gr.)	"	"
	6 "	"	"	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37547	3 "	"	"	Slight-soft (Gr.)	"	"
	6 "	"	"	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37561	3 "	"	"	Slight + - soft (Gr.)	"	"
	6 "	"	"	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37563	3 "	"	Slight	Slight + - soft (Gr.)	"	"
	6 "	"	None	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37565	3 "	"	"	Slight-soft (Gr.)	"	"
	6 "	"	"	Definite-soft (Gr.)	"	"
	12 "	"	"	Definite-soft (Gr.)	"	"
253-37567	3 "	"	"	V. slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37569	3 "	"	"	V. slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37583	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37585	3 "	"	"	Sl. + - soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37587	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37589	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37592	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Slight-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37605	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37607	3 "	"	"	Definite-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37609	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Slight-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37612	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Definite-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37614	3 "	"	"	Slight-soft (Dk. Gr.)	"	"
	6 "	"	"	Slight-soft (Dk. Gr.)	"	"
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37627	3 "	"	"	Definite-soft (Dk. Gr.)	"	Lighter and clearer
	6 "	"	"	Definite-soft (Dk. Gr.)	"	O.K.
	12 "	"	"	Definite-soft (Dk. Gr.)	"	"
253-37629	3 "	"	"	Slight-soft (Dk. Gr.)	"	Slightly cleaner
	6 "	"	"	Definite-soft (Dk. Gr.)	"	Slightly cleaner
	12 "	"	"	Definite-soft (Dk. Gr.)	"	O.K.
253-37632	3 "	"	"	V. slight-soft (Dk. Gr.)	"	Slightly cleaner and lighter
	6 "	"	"	Definite-soft (Dk. Gr.)	"	Slightly cleaner and lighter
	12 "	"	"	Definite-soft (Dk. Gr.)	"	O.K.
253-37634	3 "	"	"	V. slight-soft (Dk. Gr.)	"	Slightly cleaner and lighter
	6 "	"	"	V. slight-soft (Dk. Gr.)	"	Slightly cleaner and lighter
	12 "	"	"	Definite-soft (Dk. Gr.)	"	O.K.
253-37636	3 "	"	"	V. slight-soft (Dk. Gr.)	"	Slightly cleaner and lighter
	6 "	"	"	Slight-soft (Dk. Gr.)	"	Slightly cleaner and lighter
	12 "	"	"	Definite-soft (Dk. Gr.)	"	O.K.

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3/12/41

DUP030001085

COLOR FAMILY 7

GREEN SOLID COLOR FAMILY BLENDED FROM 253-0751 CHROMIUM TETRAHYDROXIDE WITH 253-069 RAMAPO BLUE AND 253-020 BONE BLACK (253-37638 TO 253-37726)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
253-37639	3 months	O.K.	None	V. slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	None	O.K.
253-37642	3 months	"	"	V. slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37644	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37646	3 months	"	"	Slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37648	3 months	"	"	Slight + - soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37652	3 months	"	V. Slight None	Slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37654	3 months	"	"	Slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37656	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37658	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37671	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37692	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37689	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37687	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37685	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37683	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37695	3 months	"	"	Slight-soft (Gr.) Slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.)	"	"
253-37697	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37699	3 months	"	"	Slight-soft (Gr.) Slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.)	"	"
253-37702	3 months	Trace O.K.	"	Slight-soft (Gr.) Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37704	3 months	"	"	Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37717	3 months	"	"	V. slight-soft (Gr.) Slight + - soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	O.K.
253-37719	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	O.K.
253-37722	3 months	"	"	Slight + - soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite + - soft (Gr.)	"	"
253-37724	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"
253-37726	3 months	"	"	Slight-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.) Definite-soft (Gr.)	"	"

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COLOR FAMILY 8

SOLID GREEN COLOR FAMILY BLENDED FROM
253-051 MILORI BLUE AND 253-0627, 253-
0628 CHROME YELLOW TINTING ENAMELS
(253-37727 TO 253-37836)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
253-37727	3 months	O.I.	None	Slight-hard (yel.)	None	O.K.
	6 "	"	"	Slight-hard (yel.)	"	"
	12 "	"	"	V.slight-soft (yel.) Definite-hard gummy (yel.)	"	"
253-37729	3 "	"	"	V.slight-hard (yel.)	"	"
	6 "	"	"	Slight-hard (yel.)	"	"
	12 "	"	"	Slight-hard (yel.) Slight-hard (yel.)	"	"
253-37732	3 "	"	"	Slight-hard (yel.)	"	"
	6 "	"	"	Slight-hard (yel.)	"	"
	12 "	"	"	V.slight-hard (yel.) Slight-hard (yel.)	"	"
253-37752	3 "	"	"	Definite-sl.hard (yel.)	"	"
	6 "	"	"	Definite-sl.hard (yel.)	"	"
	12 "	"	"	Slight-sl.hard (yel.) Definite-hard (yel.)	"	"
253-37754	3 "	"	"	Definite-sl.hard (yel.)	"	"
	6 "	"	"	Slight-sl.hard (yel.)	"	"
	12 "	"	"	Slight-hard (yel.) Definite-hard (yel.)	"	"
253-37756	3 "	"	"	V.slight-sl.hard (yel.)	"	Sl.greener
	6 "	"	"	V.slight-sl.hard (yel.)	"	O.K.
	12 "	"	"	V.slight-sl.hard (yel.) Slight-hard (yel.)	"	"
253-37776	3 "	"	"	Definite-sl.hard (yel.)	"	"
	6 "	"	"	Definite-sl.hard (yel.)	"	"
	12 "	"	"	Definite-sl.hard (yel.) Definite-sl.hard (yel.)	"	"
253-37778	3 "	"	"	Definite-sl.hard (yel.)	"	"
	6 "	"	"	Definite-sl.hard (yel.)	"	"
	12 "	"	"	Definite-sl.hard (yel.) Definite-sl.hard (yel.)	"	"
253-37761	3 "	"	"	V.slight-sl.hard (yel.)	"	"
	6 "	"	"	V.slight-sl.hard (yel.)	"	"
	12 "	"	"	V.slight-sl.hard (yel.) V.slight-soft (yel.)	"	"
253-37801	3 "	"	"	Slight + - hard (yel.)	"	"
	6 "	"	"	Slight + - hard (yel.)	"	"
	12 "	"	"	Slight + - hard (yel.) Definite-Gummy (yel.)	"	"
253-37803	3 "	"	"	Slight-sl.hard (yel.)	"	"
	6 "	"	"	Slight-sl.hard (yel.)	"	"
	12 "	"	"	V.slight-sl.hard (yel.) Slight-soft (yel.)	"	"
253-37805	3 "	"	"	Trace (Dk. yel.)	"	"
	6 "	"	"	V.slight-sl.hard (Dk. yel.)	"	"
	12 "	"	"	Slight-Sl.hard (Dk. yel.) Slight-soft (yel.)	"	"
253-37825	3 "	"	"	Slight-soft (Dk. yel.)	"	"
	6 "	"	"	Slight-soft (Dk. yel.)	"	"
	12 "	"	"	Slight-soft (Dk. yel.) Slight-soft (Dk. yel.)	"	"
253-37827	3 "	"	"	Slight + - soft (Dk. yel.)	"	"
	6 "	"	"	Slight + - soft (Dk. yel.)	"	"
	12 "	"	"	Slight + - soft (Dk. yel.) Slight + - soft (Dk. yel.)	"	"
253-37829	3 "	"	"	Trace (Dk. yel.)	"	"
	6 "	"	"	Trace (Dk. yel.)	"	"
	12 "	"	"	V.slight (Dk. yel.) Slight-soft (Dk. yel.)	"	"
253-37734	3 "	"	"	V.slight-sl.hard (yel.)	"	"
	6 "	"	"	Slight-hard (yel.)	"	"
	12 "	"	"	Slight-hard (yel.) V.slight-soft (yel.)	"	"
253-37736	3 "	"	"	Slight + - sl.hard (yel.)	"	"
	6 "	"	"	Slight + - sl.hard (yel.)	"	"
	12 "	"	"	Slight + - sl.hard (yel.) Slight-gummy (yel.)	"	"
253-37738	3 "	"	"	Definite-sl.hard (yel.)	"	"
	6 "	"	"	Definite-sl.hard (yel.)	"	"
	12 "	"	"	Definite-sl.hard (yel.) Definite-gummy (yel.)	"	"
253-37758	3 "	"	"	V.slight-soft (yel.)	"	"
	6 "	"	"	V.slight-soft (yel.)	"	"
	12 "	"	"	V.slight-soft (yel.) Slight-soft (yel.)	"	"
253-37761	3 "	"	"	Slight + - sl.hard (yel.)	"	"
	6 "	"	"	Slight + - sl.hard (yel.)	"	"
	12 "	"	"	Slight + - sl.hard (yel.) Definite-sl.hard (yel.)	"	"
253-37763	3 "	"	"	Definite-hard (yel.)	"	"
	6 "	"	"	Definite-hard (yel.)	"	"
	12 "	"	"	Slight-hard (yel.) Definite-hard (yel.)	"	"
253-37765	3 "	"	"	Trace (yel.)	"	"
	6 "	"	"	V.slight-hard (yel.)	"	"
	12 "	"	"	V.slight-hard (yel.) V.slight-soft (yel.)	"	"
253-37765	3 "	"	"	Slight-soft (yel.)	"	Sl.darker
	6 "	"	"	Slight-soft (yel.)	"	O.K.
	12 "	"	"	Slight-soft (yel.) Slight-soft (yel.)	"	"

COLOR FAMILY 6 (continued)

<u>Number</u>	<u>Exposure</u>	<u>Can Cor- rosion</u>	<u>Gassing</u>	<u>Settling</u>	<u>Gelation</u>	<u>Color</u>
253-37787	3 months	O.K.	None	Slight + - sl.hard (yel.)	None	Sl.lighter
	6 "	"	"	Definite-sl.hard (yel.)	"	O.K.
	9 "	"	"	V.slight-sl.hard (yel.)	"	"
	12 "	"	"	Slight-gummy	"	"
253-37807	3 "	"	"	Trace	"	"
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	"	"	"
253-37809	3 "	"	"	V.slight-soft (yel.)	"	"
	6 "	"	"	Slight-soft (yel.)	"	"
	9 "	"	"	Slight-soft (yel.)	"	"
	12 "	"	"	Slight-soft (yel.)	"	"
253-37812	3 "	"	"	Slight + - sl.hard (yel.)	"	"
	6 "	"	"	Slight + - sl.hard (yel.)	"	"
	9 "	"	"	Slight + - sl.hard (yel.)	"	"
	12 "	"	"	Slight + - gummy (yel.)	"	"
253-37832	3 "	"	"	None	"	"
	6 "	"	"	"	"	"
	9 "	"	"	Trace	"	"
	12 "	"	"	"	"	"
253-37834	3 "	"	"	V.slight-soft (yel.)	"	"
	6 "	"	"	Slight-soft (yel.)	"	"
	9 "	"	"	Slight-soft (yel.)	"	"
	12 "	"	"	Slight-soft (yel.)	"	"
253-37836	3 "	"	"	Slight-soft (yel.)	"	V.sl.lighter
	6 "	"	"	Definite-soft (yel.)	"	O.K.
	9 "	"	"	Definite-soft (yel.)	"	"
	12 "	"	"	Definite-soft (yel.)	"	"

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COLOR FAMILY 9

GREEN METALLIC COLOR FAMILY BLENDED
FROM 253-051 MILORI BLUE AND 253-0627
CHROME YELLOW TINTING ENAMELS
(213-36686 TO 213-36781)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
213-36686	3 months	O.K.	None	Bad-soft (yel. + Al)	None	O.K.
	6 "	"	"	Definite-soft (yel. + Al)	"	V.sl.bluer and darker
	12 "	"	"	Definite-hard (yel. + Al)	"	V.sl.bluer and darker
213-36688	3 "	"	"	Definite-gummy (yel. + Al)	"	O.K.
	6 "	"	"	Definite-soft (yel. + Al)	"	V.sl.bluer and darker
	12 "	"	"	Definite-hard (yel. + Al)	"	V.sl.bluer and darker
213-36691	3 "	"	"	Slight-gummy (yel. + Al)	"	O.K.
	6 "	"	"	Definite-soft (yel. + Al)	"	V.sl.bluer and darker
	12 "	"	"	Definite-soft (yel. + Al)	"	V.sl.bluer and darker
213-36694	3 "	"	"	Definite-hard (yel. + Al)	"	O.K.
	6 "	"	"	Slight-gummy (yel. + Al)	"	V.sl.bluer and darker
	12 "	"	"	Definite + - soft (yel. + Al)	"	O.K.
213-36705	3 "	"	"	Definite + - soft (yel. + Al)	"	Sl.bluer and darker
	6 "	"	"	Definite + - hard (yel. + Al)	"	Sl.bluer and darker
	12 "	"	"	Definite + - soft (yel. + Al)	"	Sl.bluer and darker
213-36707	3 "	"	"	Bad-soft (yel. + Al)	"	O.K.
	6 "	"	"	Definite-soft (yel. + Al)	"	"
	12 "	"	"	Definite-soft (yel. + Al)	"	"
213-36709	3 "	"	"	Definite-gummy (yel. + Al)	"	"
	6 "	"	"	Slight + - soft (yel. + Al)	"	"
	12 "	"	"	Definite - soft (yel. + Al)	"	"
213-36712	3 "	"	"	Definite - soft (yel. + Al)	"	"
	6 "	"	"	Definite - soft (yel. + Al)	"	"
	12 "	"	"	Definite - soft (yel. + Al)	"	"
213-36714	3 "	"	"	Definite-soft (yel. + Al)	"	"
	6 "	"	"	Definite-soft (yel. + Al)	"	V.sl.darker and less Al
	12 "	"	"	Definite-soft (yel. + Al)	"	V.sl.darker and less Al
213-36720	3 "	"	"	Definite-soft (yel. + Al)	"	V.sl.darker and less Al
	6 "	"	"	Definite + - soft (yel. + Al)	"	O.K.
	12 "	"	"	Definite + - soft (yel. + Al)	"	V.sl.darker and greener
213-36728	3 "	"	"	Definite + - soft (yel. + Al)	"	O.K.
	6 "	"	"	Definite + - soft (yel. + Al)	"	"
	12 "	"	"	Definite + - gummy (yel. + Al)	"	V.v.sl.darker and greener
213-36731	3 "	"	"	Definite + - soft (yel. + Al)	"	O.K.
	6 "	"	"	Definite + - soft (yel. + Al)	"	"
	12 "	"	"	Definite + - soft (yel. + Al)	"	V.v.sl.darker and greener
213-36733	3 "	"	"	Definite + - soft (yel. + Al)	"	O.K.
	6 "	"	"	Definite-soft (Sl.yel. + def. Al)	"	"
	12 "	"	"	Definite-gummy (Sl.yel. + def. Al)	"	"
213-36735	3 "	"	"	Definite-gummy (Sl.yel. + def. Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36748	3 "	"	"	Definite-gummy (Al)	"	"
	6 "	"	"	Def. + - soft (yel. + Al)	"	"
	12 "	"	"	Def. + - soft (yel. + Al)	"	"
213-36751	3 "	"	"	Def. + - gummy (yel. + Al)	"	"
	6 "	"	"	Def. + - gummy (yel. + Al)	"	"
	12 "	"	"	Definite-soft (yel. + Al)	"	"
213-36753	3 "	"	"	Definite-soft (yel. + Al)	"	"
	6 "	"	"	Definite-soft (yel. + Al)	"	"
	12 "	"	"	Definite-gummy (yel. + Al)	"	"
213-36755	3 "	"	"	Def. + - soft (yel. + Al)	"	"
	6 "	"	"	Def. + - soft (yel. + Al)	"	"
	12 "	"	"	Def. + - gummy (yel. + Al)	"	"
213-36757	3 "	"	"	Definite-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-gummy (Al)	"	"
213-36771	3 "	"	"	Definite-soft (Al)	"	V.sl.darker and greener
	6 "	"	"	Definite-soft (Al)	"	V.sl.darker and greener
	12 "	"	"	Definite-soft (Al)	"	V.sl.darker and greener
213-36773	3 "	"	"	Definite-soft (yel. + Al)	"	V.sl.darker and greener
	6 "	"	"	Definite-soft (yel. + Al)	"	V.sl.darker and greener
	12 "	"	"	Definite-gummy (yel. + Al)	"	V.sl.darker and greener
213-36775	3 "	"	"	Definite-soft (yel. + Al)	"	V.sl.darker and greener
	6 "	"	"	Definite-soft (yel. + Al)	"	V.sl.darker and greener
	12 "	"	"	Definite-gummy (yel. + Al)	"	V.sl.darker and greener
213-36777	3 "	"	"	Definite-soft (Al)	"	O.K.
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-gummy (Al)	"	"
213-36779	3 "	"	"	Definite-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"

DUP030001089

COLOR FAMILY 10

DARK GRAY METALLIC COLOR FAMILY BLENDED FROM 253-0913
TiO₂ WHITE, 253-020 BONE BLACK, 253-0751 CHROMIUM TETRA-
HYDROXIDE, AND 253-059 RAMAPO BLUE TINTING ENAMELS
(213-36304 TO 213-36383)

Number	Exposure	Can Cor- rosion	Cracking	Settling	Gelation	Color
213-36304	months	O.K.	None	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Slight-soft (A1)	None	V.sl.greener O.K. V.sl.greener
213-36306	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Slight-soft (A1)	"	O.K. V.sl.greener
213-36308	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Slight-soft (A1)	"	V.sl.blue V.sl.blue V.sl.blue V.sl.greener
213-36311	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Slight-soft (A1)	"	Sl.blue O.K. V.sl.bluer
213-36313	12 months	"	"	Trace V.slight-soft (A1) V.slight-soft (A1) V.slight-soft (A1)	"	V.sl.blue O.K. V.sl.bluer
213-36324	12 months	"	"	Sl.soft (A1) Definite-soft (A1) Definite-soft (A1) Slight-soft (A1)	"	O.K.
213-36326	12 months	"	"	Slight-soft (A1) Definite-soft (A1) Slight-soft (A1) Slight-soft (A1)	"	"
213-36328	12 months	"	"	Slight-soft (A1) Definite-soft (A1) Slight-soft (A1) Slight-soft (A1)	"	"
213-36331	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36333	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	V.sl.bluer O.K.
213-36262	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Definite-soft (A1) Definite-soft (A1)	"	"
213-36259	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Definite-soft (A1) Definite-soft (A1)	"	"
213-36257	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Definite-soft (A1) Definite-soft (A1)	"	"
213-36255	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Definite-soft (A1) Definite-soft (A1)	"	"
213-36253	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Definite-soft (A1) Definite-soft (A1)	"	"
213-36354	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Definite-soft (A1) Definite-soft (A1)	"	"
213-36356	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36358	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36361	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36363	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36374	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	V.sl.darker O.K.
213-36376	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36378	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36381	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"
213-36383	12 months	"	"	Slight-soft (A1) Slight-soft (A1) Slight-soft (A1) Definite-soft (A1)	"	"

BDP:DMZ
4/7/81

DUP030001090

COLOR FAMILY 11

LIGHT GREY METALLIC COLOR FAMILY BLENDED FROM 253-0953 T102
WHITE, 253-020 BONE BLACK, 253-040 BURNED UMBER AND 253-0314
FERRIC OXIDE TINTING ENAMELS (213-36213 TO 213-36303)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
213-36213	3 months	O.K.	None	Slight-soft (A1)	None	O.K.
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	V.el.darker
213-36215	3 "	"	"	Slight-soft (A1)	"	O.K.
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36217	3 "	"	"	Slight-soft (A1)	"	Sl.darker
	6 "	"	"	Definite-soft (A1)	"	O.K.
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36219	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	Sl.darker
213-36222	3 "	"	"	Slight-soft (A1)	"	C.K.
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Slight-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36233	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36235	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36237	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36239	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Slight-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36242	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Slight-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36274	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36276	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36278	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36281	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36283	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36294	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36296	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Definite-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36298	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Slight-soft (A1)	"	"
	12 "	"	"	Slight-soft (A1)	"	"
213-36301	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"
213-36303	3 "	"	"	Slight-soft (A1)	"	"
	6 "	"	"	Slight-soft (A1)	"	"
	9 "	"	"	Definite-soft (A1)	"	"
	12 "	"	"	Definite-soft (A1)	"	"

HDP:DMZ
4/23/41

BLUE-GREEN GRAY SOLID COLOR FAMILY, BLENDED FROM 253-0953 TIO₂ WHITE, 253-020 BONE BLACK, 253-059 RANAPHO BLUE, AND 253-0751 CHROMIUM TETRAHYDROXIDE GREEN TINTING ENAMELS (253-37231 TO 253-37303)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
253-37231	3 months	O.K.	None	V.sl.-soft (wh.) V.sl.-soft (wh.) V.sl.-soft (wh.) Slight-gummy (wh.)	None	O.K.
253-37233	1 month	"	"	None V.sl.-soft (wh.) V.sl.-soft (wh.) V.sl.-gummy (wh.)	"	"
253-37235	1 month	"	"	None V.sl.-soft (wh.) V.sl.-soft (wh.) V.sl.-gummy (wh.)	"	"
253-37237	1 month	"	"	None V.sl.-soft (wh.) V.sl.-soft (wh.) V.sl.-gummy (wh.)	"	"
253-37239	1 month	"	"	None V.sl.-soft (wh.) V.sl.-soft (wh.) V.sl.-gummy (wh.)	"	"
253-37241	1 month	Sl.rust spots	"	None V.slight	"	"
253-37242	1 month	O.K.	"	None	"	"
253-37243	1 month	"	"	"	"	"
253-37245	1 month	"	"	V.sl.-soft (wh.) Med.soft-slight + (wh.) Med.soft-slight + (wh.) Gummy-slight + (wh.)	"	"
253-37247	1 month	"	"	Trace Sl. + - soft med. (wh.) Sl. + - soft med. (wh.) Def.-gummy (wh.)	"	"
253-37249	1 month	"	"	None Slight-medium soft (wh.) Slight-medium soft (wh.) Definite-gummy (wh.)	"	"
253-37251	1 month	"	"	None V.Sl.-soft (wh.) V.Sl.-soft (wh.) V.Sl.-soft (wh.)	"	"
253-37253	1 month	Sl.rust spots	"	"	"	"
253-37255	1 month	O.K.	"	None	"	Sl.darker O.K.
253-37257	1 month	"	"	Trace	"	O.K.
253-37259	1 month	"	"	Trace Definite-gummy (wh.) Definite-gummy (wh.) Definite-gummy (wh.)	"	Sl.darker O.K.
253-37261	1 month	"	"	None Slight-hard (wh.) Slight-hard (wh.) Definite-gummy (wh.)	"	"
253-37263	1 month	"	"	None V.Sl.-hard (gray) V.Sl.-hard (gray) Definite-gummy (gray)	"	"
253-37265	1 month	"	"	None	"	"
253-37267	1 month	"	"	Definite-soft (gray)	"	"
253-37269	1 month	"	"	None	"	"
253-37271	1 month	"	"	Trace	"	"
253-37273	1 month	"	"	None	"	"
253-37275	1 month	"	"	V.Sl.-hard (gray) Definite-hard (gray) Definite-hard (gray) Definite-hard (gray)	"	"
253-37277	1 month	"	"	None Definite-medium hard (gray) Definite-medium hard (gray) Definite-gummy (gray)	"	"
253-37279	1 month	"	"	None V.Slight-soft (gray) V.Slight-soft (gray) Definite-gummy (gray)	"	"
253-37281	1 month	"	"	None	"	"
253-37283	1 month	Sl.rust spots	"	Slight-soft (gray)	"	"
253-37301	1 month	O.K.	"	None	"	"
253-37303	1 month	"	"	V.Slight-soft (gray)	"	"

COLOR FAMILY 12 (continued)

<u>Number</u>	<u>Exposure</u>	<u>Can Cor- rosion</u>	<u>Gassing</u>	<u>Settling</u>	<u>Gelation</u>	<u>Color</u>
253-37316	3 months	O.K.	None	Trace	None	O.K.
	6 "	"	"	Slight-soft (gray & wh.)	"	"
	9 "	"	"	Slight-soft (gray & wh.)	"	"
	12 "	"	"	Definite-gummy (gray & wh.)	"	"
253-37318	3 "	"	"	None	"	"
	6 "	"	"	V.Slight-soft (green)	"	"
	9 "	"	"	V.Slight-soft (green)	"	"
	12 "	"	"	Definite-soft (green)	"	"
253-37321	3 "	"	"	None	"	"
	6 "	"	"	V.Slight-soft (green)	"	"
	9 "	"	"	V.Slight-soft (green)	"	"
	12 "	"	"	Definite-soft (green)	"	"
253-37323	3 "	"	"	None	"	"
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	Slight-soft	"	"
253-37325	3 "	"	"	None	"	"
	6 "	"	"	"	"	"
	9 "	"	"	Trace	"	"
	12 "	"	"	None	"	"
253-37327	3 "	"	"	None	"	"
	6 "	"	"	"	"	"
	9 "	"	"	"	"	"
	12 "	"	"	"	"	"

HDP:DMZ
4/23/41

LIGHT GRAY SOLID COLOR FAMILY BLENDING FROM 253-0951 T102
 WHITE, 253-020 BONE BLACK, 253-040 BURNT UMBER, AND 253-
 0314 FERRIC OXIDE TINTING ENAMELS (253-37181 TO 253-37229)

Number	Exposure	Can Cor- rosion	Cassing	Settling	Gelation	Color
253-37121	1 months	O.K.	None	Slight-soft (Br.)	None	V. slightly darker
	6 "	"	"	Definite-soft (Br.)	"	O.K.
	12 "	"	"	Definite-soft (Br.)	"	"
		"	"	Definite + - gummy (Br.)	"	"
253-37123	3 "	"	"	Slight-soft (Br.)	"	"
	6 "	"	"	Definite-soft (Br.)	"	"
	12 "	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37125	3 "	"	"	Slight-soft (Br.)	"	"
	6 "	"	"	Definite-soft (Br.)	"	"
	9 "	"	"	Definite-soft (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"
253-37127	3 "	"	"	Definite-slight hard (Br.)	"	"
	6 "	"	"	Definite-soft (Br.)	"	"
	9 "	"	"	Definite-soft (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"
253-37129	3 "	"	"	Definite-hard (Br.)	"	"
	6 "	"	"	Definite-soft (Br.)	"	"
	9 "	"	"	Definite-soft (Br.)	"	"
	12 "	"	"	Definite-hard (Br.)	"	"
253-37132	3 "	"	"	Slight + - hard (Br.)	"	"
	6 "	"	"	Definite-hard (Br.)	"	"
	9 "	"	"	Definite-hard (Br.)	"	"
	12 "	"	"	Definite-hard (Br.)	"	"
253-37145	3 "	"	"	V. slight-soft (Br.)	"	V. slightly darker
	6 "	"	"	Definite-hard (Br.)	"	O.K.
	9 "	"	"	Definite-soft (Br.)	"	"
	12 "	"	"	Definite + - gummy (Br.)	"	"
253-37147	3 "	"	"	Slight-soft	"	"
	6 "	"	"	Definite-soft (Br.)	"	"
	9 "	"	"	Definite-soft (Br.)	"	"
	12 "	"	"	Definite + - soft (Br.)	"	"
253-37149	3 "	"	"	Slight + - soft (Blk.)	"	"
	6 "	"	"	Definite-soft (Blk.)	"	"
	9 "	"	"	Definite-soft (Blk.)	"	"
	12 "	"	"	Definite + - gummy (Blk.)	"	"
253-37152	3 "	"	"	Definite-slight hard (Blk. & Br.)	"	"
	6 "	"	"	Definite-soft (Blk. & Br.)	"	"
	9 "	"	"	Definite-soft (Blk. & Br.)	"	"
	12 "	"	"	Definite-gummy (Blk. & Br.)	"	"
253-37154	3 "	"	"	Definite-gummy (Blk.)	"	"
	6 "	"	"	Definite-soft (Blk.)	"	"
	9 "	"	"	Definite-soft (Blk.)	"	"
	12 "	"	"	Definite-gummy (Blk.)	"	"
253-37156	3 "	"	"	Slight-hard (Blk. & Wh.)	"	"
	6 "	"	"	Definite-soft (Blk. & Wh.)	"	"
	9 "	"	"	Definite-soft (Blk. & Wh.)	"	"
	12 "	"	"	Definite-gummy (Blk. & Wh.)	"	"
253-37182	3 "	"	"	Slight-soft (Red)	"	V. slightly darker
	6 "	"	"	Slight-soft (Red)	"	O.K.
	9 "	"	"	Slight-soft (Red)	"	"
	12 "	"	"	Definite-soft (Red)	"	"
253-37184	3 "	"	"	Slight-soft (Red)	"	V. slightly darker
	6 "	"	"	Definite-soft (Gray)	"	O.K.
	9 "	"	"	Definite-soft (Gray)	"	"
	12 "	"	"	Definite-soft (Gray)	"	"
253-37186	3 "	"	"	Slight + - Bl. hard (Red & Blk.)	"	V. slightly darker
	6 "	"	"	Definite-soft (Gray)	"	O.K.
	9 "	"	"	Definite-soft (Gray)	"	V. slightly darker
	12 "	"	"	Definite-gummy (Gray)	"	O.K.
253-37188	3 "	"	"	Definite-gummy (Red)	"	"
	6 "	"	"	Definite-soft (Gray)	"	"
	9 "	"	"	Definite-soft (Gray)	"	"
	12 "	"	"	Definite-gummy (Gray)	"	"
253-37191	3 "	"	"	Slight-gummy (Wh. & Blk.)	"	"
	6 "	"	"	Def-soft (Gray)	"	"
	9 "	"	"	Definite-soft (Gray)	"	"
	12 "	"	"	Definite-gummy (Gray)	"	"
253-37193	3 "	"	"	Slight + - gummy (Wh. & Blk.)	"	"
	6 "	"	"	Definite-soft (Wh. & Blk.)	"	"
	9 "	"	"	Definite-soft (Wh. & Blk.)	"	"
	12 "	"	"	Definite-gummy (Wh. & Blk.)	"	"
253-37206	3 "	"	"	Slight + - soft (Red)	"	"
	6 "	"	"	Definite-soft (Red)	"	"
	9 "	"	"	Definite-soft (Red)	"	"
	12 "	"	"	Definite + - soft (Red)	"	"
253-37208	3 "	"	"	Definite-soft (Red)	"	"
	6 "	"	"	Definite-soft (Red)	"	"
	9 "	"	"	Definite-soft (Red)	"	"
	12 "	"	"	Definite-gummy (Red)	"	"
253-37211	3 "	"	"	Slight + - soft (Red)	"	"
	6 "	"	"	Definite-soft (Red)	"	"
	9 "	"	"	Definite-soft (Red)	"	"
	12 "	"	"	Definite-gummy (Red)	"	"
253-37213	3 "	"	"	Definite-slight hard (Red)	"	"
	6 "	"	"	Definite-soft (Red)	"	"
	9 "	"	"	Definite-soft (Red)	"	"
	12 "	"	"	Definite-gummy (Red)	"	"
253-37215	3 "	"	"	Definite-slight hard (Red)	"	"
	6 "	"	"	Definite-slight hard (Red)	"	"
	9 "	"	"	Definite-slight hard (Red)	"	"
	12 "	"	"	Definite-gummy (Red)	"	"
253-37217	3 "	"	"	Definite-slight hard (Wh. & Red)	"	"
	6 "	"	"	Definite-slight hard (Wh. & Red)	"	"
	9 "	"	"	Definite-slight hard (Wh. & Red)	"	"
	12 "	"	"	Definite-hard (Wh. & Red)	"	"

HDP:DNZ
 5/5/41

DUP030001094

COLOR FAMILY 14

BROWN METALLIC COLOR FAMILY BLENDED FROM 253-040 BURNED UMBER AND
253-0314 FERRIC OXIDE TINTING ENAMELS (213-36001 TO 213-36088)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
213-36002	3 months	O.K.	None	Def.-soft (Al)	None	O.K.
	6 "	"	"	Def. + - soft (Al)	"	"
	12 "	"	"	Def. + - soft (Al)	"	"
213-36004	3 "	"	"	Def.-soft (Al)	"	"
	6 "	"	"	Def.-soft (Al)	"	"
	12 "	"	"	Def.-soft (Al)	"	"
213-36006	3 "	"	"	Def.-soft (Al)	"	"
	6 "	"	"	Def.-soft (Al)	"	"
	12 "	"	"	Def.-soft (Al)	"	"
213-36008	3 "	"	"	Def.-soft (Al)	"	"
	6 "	"	"	Def.-soft (Al)	"	"
	12 "	"	"	Def.-soft (Al)	"	"
213-36011	3 "	"	"	Def.-soft (Al)	"	"
	6 "	"	"	Def.-soft (Al)	"	"
	12 "	"	"	Def.-soft (Al)	"	"
213-36024	3 "	"	"	Def.-soft (Al)	"	"
	6 "	"	"	Def.-soft (Al)	"	"
	12 "	"	"	Def.-soft (Al)	"	"
213-36026	3 "	"	"	Def.-soft (Al)	"	"
	6 "	"	"	Def.-soft (Al)	"	"
	12 "	"	"	Def.-soft (Al)	"	"
213-36028	3 "	"	"	Def.-soft (Al)	"	"
	6 "	"	"	Def.-soft (Al)	"	"
	12 "	"	"	Def.-soft (Al)	"	"
213-36031	3 "	"	"	Sl. + - soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36033	3 "	"	"	Sl. + - soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36046	3 "	"	"	Definite-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36048	3 "	"	"	Definite-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36051	3 "	"	"	Definite-soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36053	3 "	"	"	Sl. + - soft (Al)	"	"
	6 "	"	"	Definite-soft (Al)	"	"
	12 "	"	"	Definite-soft (Al)	"	"
213-36055	3 "	"	"	Sl. + - soft (Al)	"	"
	6 "	"	"	Sl. + - soft (Al)	"	"
	12 "	"	"	Slight-soft (Al)	"	"
213-36068	3 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	6 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	12 "	"	"	Def. + - soft (Al) (Sl.Red)	"	V.al.lighter
213-36071	3 "	"	"	Definite-soft (Al) (Sl.Red)	"	O.K.
	6 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	12 "	"	"	Def. + - soft (Al) (Sl.Red)	"	"
213-36073	3 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	6 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	12 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
213-36075	3 "	"	"	Sl. + - soft (Al) (Sl.Red)	"	"
	6 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	12 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
213-36077	3 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	6 "	"	"	Definite-soft (Al) (Sl.Red)	"	"
	12 "	"	"	Definite-soft (Al) (Sl.Red)	"	"

HDP:DNZ
5/26/41

DUP030001095

COLOR FAMILY 15

BROWN SOLID COLOR FAMILY BLENDING FROM 253-040
BURNED UMBER AND 253-0314 FERRIC OXIDE TINTING
ENAMELS (253-37001 AND 253-37119)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
253-37002	3 months	O.K.	None	None	None	O.K.
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	V. sl. lighter
253-37004	3	"	"	None	"	O.K.
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37006	3	"	"	Slight-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37008	3	"	"	V. slight-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37011	3	"	"	V. slight-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37013	3	"	"	None	"	"
	9	"	"	Slight-gummy (Br.)	"	"
	12	"	"	Definite-gummy (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37028	3	"	"	None	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37031	3	"	"	None	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37033	3	"	"	Slight-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37035	3	"	"	V. sl. soft (Br.)	"	"
	9	"	"	Definite-gummy (Br.)	"	"
	12	"	"	Definite-gummy (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37037	3	"	"	Slight-soft (Br.)	"	"
	9	"	"	Definite-gummy (Br.)	"	"
	12	"	"	Definite-gummy (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37039	3	"	"	Slight-soft (Br.)	"	"
	9	"	"	Slight-hard (Br.)	"	"
	12	"	"	Definite-hard (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37055	3	"	"	Definite-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Bad + - soft (Br.)	"	"
253-37057	3	"	"	Slight-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-soft (Br.)	"	"
253-37059	3	"	"	Definite-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	Sl. darker
		"	"	Definite-soft (Br.)	"	O.K.
253-37062	3	"	"	Definite-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	Sl. darker
		"	"	Definite-soft (Br.)	"	O.K.
253-37064	3	"	"	Slight-soft (Br.)	"	"
	9	"	"	Definite-gummy (Br.)	"	"
	12	"	"	Definite-gummy (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37066	3	"	"	V. slight-soft (Br.)	"	"
	9	"	"	Slight-gummy (Br.)	"	"
	12	"	"	Definite-gummy (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37082	3	"	"	Definite-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite + - soft (Br.)	"	"
253-37084	3	"	"	Slight-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37086	3	"	"	Definite-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37088	3	"	"	Definite-soft (Br.)	"	"
	9	"	"	Definite-soft (Br.)	"	"
	12	"	"	Definite-soft (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"
253-37091	3	"	"	Definite-soft (Br.)	"	"
	9	"	"	Definite-gummy (Br.)	"	"
	12	"	"	Definite-gummy (Br.)	"	"
		"	"	Definite-gummy (Br.)	"	"

COLOR FAMILY 15 (continued)

<u>Number</u>	<u>Exposure</u>	<u>Can Cor- rosion</u>	<u>Gassing</u>	<u>Settling</u>	<u>Gelation</u>	<u>Color</u>
253-37093	3 months	O.K.	None	Definite-soft (Br.)	None	O.K.
	6 "	"	"	Slight-gummy (Br.)	"	"
	9 "	"	"	Definite-gummy (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"
253-37108	3 "	"	"	V.definite-soft (Br.)	"	"
	6 "	"	"	V.definite-soft (Br.)	"	"
	9 "	"	"	V.definite-soft (Br.)	"	"
	12 "	"	"	V.definite-gummy (Br.)	"	"
253-37111	3 "	"	"	Definite-soft (Br.)	"	"
	6 "	"	"	Definite-gummy (Br.)	"	"
	9 "	"	"	Definite-gummy (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"
253-37113	3 "	"	"	Definite-soft (Br.)	"	"
	6 "	"	"	Definite-gummy (Br.)	"	"
	9 "	"	"	Definite-gummy (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"
253-37115	3 "	"	"	Definite-soft (Br.)	"	"
	6 "	"	"	Definite-gummy (Br.)	"	"
	9 "	"	"	Definite-gummy (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"
253-37117	3 "	"	"	Definite-soft (Br.)	"	"
	6 "	"	"	Definite-gummy (Br.)	"	"
	9 "	"	"	Definite-gummy (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"
253-37119	3 "	"	"	Definite-soft (Br.)	"	"
	6 "	"	"	Slight-gummy (Br.)	"	"
	9 "	"	"	Definite-gummy (Br.)	"	"
	12 "	"	"	Definite-gummy (Br.)	"	"

HDP:DMZ
6/16/41

DUP030001097

COLOR FAMILY 16

CREAM SOLID COLOR FAMILY BLENDED FROM 253-064 FERRITE
YELLOW TINTING ENAMEL (253-37837 TO 253-37891)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
253-37837	3 months	O.K.	None	V. Slight-hard (Yel.)	None	O.K.
	6 "	"	"	Slight-hard (Yel.)	"	"
	9 "	"	"	Slight-hard (Yel.)	"	"
	12 "	"	"	Slight-soft caked (Yel.)	"	V. slightly brighter C.K.
253-37839	3 "	"	"	Slight-hard (Yel.)	"	"
	6 "	"	"	Slight-hard (Yel.)	"	"
	9 "	"	"	Slight-hard (Yel.)	"	"
	12 "	"	"	Definite-caked (Yel.)	"	"
253-37842	3 "	"	"	Slight-hard (Yel.)	"	"
	6 "	"	"	Slight-hard (Yel.)	"	"
	9 "	"	"	Slight-hard (Yel.)	"	"
	12 "	"	"	Definite-hard (Yel.)	"	"
253-37844	3 "	"	"	Slight + - hard (Yel.)	"	"
	6 "	"	"	Slight + - hard (Yel.)	"	"
	9 "	"	"	Slight + - hard (Yel.)	"	"
	12 "	"	"	Definite - hard (Yel.)	"	"
253-37853	3 "	"	"	Slight-hard (FeY)	"	"
	6 "	"	"	Slight-hard (Yel.)	"	"
	9 "	"	"	Slight-hard (Yel.)	"	"
	12 "	"	"	Slight-caked (Yel.)	"	V. slightly redder V. slightly redder
253-37855	3 "	"	"	Slight-hard (Yel.)	"	"
	6 "	"	"	Slight-hard (Yel.)	"	O.K.
	9 "	"	"	Slight-hard (Yel.)	"	"
	12 "	"	"	Definite-caked (Yel.)	"	"
253-37857	3 "	"	"	Slight + - hard (Yel.)	"	"
	6 "	"	"	Slight + - hard (Yel.)	"	"
	9 "	"	"	Slight + - hard (Yel.)	"	"
	12 "	"	"	Slight + - caked (Yel.)	"	"
253-37859	3 "	"	"	Slight + - hard (Yel.)	"	"
	6 "	"	"	Slight + - hard (Yel.)	"	"
	9 "	"	"	Slight + - hard (Yel.)	"	"
	12 "	"	"	Slight + - caked (Yel.)	"	"
253-37860	3 "	"	"	Slight-hard (V.sl. Yel.)	"	"
	6 "	"	"	Slight-hard (V.sl. Yel.)	"	"
	9 "	"	"	Slight-hard (V.sl. Yel.)	"	"
	12 "	"	"	Slight-caked (V.sl. Yel.)	"	V. slightly redder
253-37871	3 "	"	"	Slight-hard (Yel.)	"	O.K.
	6 "	"	"	Slight-hard (Yel.)	"	"
	9 "	"	"	Slight-hard (Yel.)	"	"
	12 "	"	"	Definite-caked (Yel.)	"	"
253-37873	3 "	"	"	Slight-hard (Yel.)	"	"
	6 "	"	"	Slight-hard (Yel.)	"	"
	9 "	"	"	Slight-hard (Yel.)	"	"
	12 "	"	"	Slight-caked (Yel.)	"	"
253-37875	3 "	"	"	Slight + - hard (Yel.)	"	"
	6 "	"	"	Slight + - hard (Yel.)	"	"
	9 "	"	"	Slight + - hard (Yel.)	"	"
	12 "	"	"	Slight + - caked (Yel.)	"	"
253-37884	3 "	"	"	Slight-hard (Dk. Yel.)	"	"
	6 "	"	"	Slight-hard (Dk. Yel.)	"	"
	9 "	"	"	Slight-hard (Dk. Yel.)	"	"
	12 "	"	"	Definite-caked (Dk. Yel.)	"	"
253-37886	3 "	"	"	Slight + - hard (Br.)	"	"
	6 "	"	"	Definite - hard (Br.)	"	"
	9 "	"	"	Definite - hard (Br.)	"	"
	12 "	"	"	Definite - caked (Br.)	"	"
253-37888	3 "	"	"	Slight + - hard (Br.)	"	"
	6 "	"	"	Slight + - hard (Br.)	"	"
	9 "	"	"	Definite - hard (Br.)	"	"
	12 "	"	"	Definite - caked (Br.)	"	"
253-37891	3 "	"	"	Definite-hard (Br.)	"	"
	6 "	"	"	Definite-hard (Br.)	"	"
	9 "	"	"	Definite-hard (Br.)	"	"
	12 "	"	"	Definite-caked (Br.)	"	"

HDP:DMZ
6/25/41

COLOR FAMILY 17

MAROON SOLID COLOR FAMILY BLENDED FROM 253-0373 AND 253-0374
VICTORIA MAROON TINTING ENAMELS (253-33045-M TO 253-33054-M)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
253-33045-M	3 months	O.K.	None	None	None	V. slightly lighter
	6 "	"	"	"	"	V. slightly lighter
	12 "	"	"	"	"	V. slightly lighter
253-33047-M	3 "	"	"	Slight-soft (Dk. M)	"	V. slightly lighter
	6 "	"	"	Slight-soft (Dk. M)	"	V. slightly lighter
	12 "	"	"	Slight-soft (Dk. M)	"	V. slightly lighter
253-33052-M	3 "	"	"	None	"	O.K.
	6 "	"	"	V. Slight	"	V. sl. redder and brighter
	12 "	"	"	None	"	V. sl. redder
253-33054-M	3 "	"	"	Slight + - soft	"	O.K.
	6 "	"	"	Definite-soft (Dk. M)	"	"
	12 "	"	"	Slight-soft (Dk. M)	"	"

COLOR FAMILY 18

MAROON METALLIC COLOR FAMILY BLENDED FROM 253-033
MAROON TONER (213-33039-M TO 213-33044-M)

Number	Exposure	Can Cor- rosion	Gassing	Settling	Gelation	Color
213-33039-M	3 months	O.K.	None	None	Definite (False body)	O.K.
	6 "	"	"	"	Bad (False body)	V. sl. redder and brighter
	12 "	"	"	"	Bad (False body)	V. sl. redder and brighter
213-33042-M	3 "	"	"	"	Definite (False body)	O.K.
	6 "	"	"	"	Bad (False body)	"
	12 "	"	"	"	Bad (False body)	V. sl. redder and brighter
213-33043-M	3 "	"	"	"	Definite (False body)	O.K.
	6 "	"	"	"	Definite (False body)	"
	12 "	"	"	"	Bad (False body)	V. sl. redder and brighter
213-33044-M	3 "	"	"	"	Definite (False body)	O.K.
	6 "	"	"	"	Bad (False body)	"
	12 "	"	"	"	Bad (False body)	V. sl. redder and brighter

HDP:DMZ
6/24/41