



TRADE SALES SURVEY  
September 25, 1941

In this portion of the survey we have covered three Trade Sales products; 1. Flat Wall paints, 2. Exterior House paints, and 3. Exterior primers or undercoaters. We have confined our attention to the comparative performance of the principal competitive materials with our own institutional products. Under section 1, we will discuss the principal trade sales flats both whites and representative tints as well as some painter and metropolitan materials. In section 2 of this report we will discuss exterior house paints, and section 3 will be devoted to exterior house paint primers.

Examination of Paints

The competitive paints that were tested were purchased on the open market in Chicago. The institutional samples were obtained from regular stocked material of late manufacture or from the various plants or warehouses. When samples were received, all labels were removed and a code number was assigned so that the tester would have no knowledge of the material on test.

Section 1. Flat Wall Paints

General Physical Characteristics

Each paint was subjected to a number of tests as recorded in the various charts of this report. Such things as package condition, degree of settling and ease of stirring were determined but due to the difference or uncertainties of manufacturing dates, these properties were not considered in our evaluations. Such tests as odor in the package, consistency, grind and weight per gallon were also determined.

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#### Working Properties

The working properties of the paints were determined as follows. All flat wall paints were applied on 4' x 4' Upson Board which had previously been given a black stripe and then coated with SW Wall Primer and Sealer over half of the surface and a coat of glue size applied on the balance. This technique was followed as a difference in performance is often noted when flat wall paints are applied on glue sized surfaces.

The flat wall paints were applied over half of the panel in the white, and then tinted to a dark gray and applied to the balance of the surface. Brushing properties, flow, and uniformity were then rated. After 24 hours the films were checked for drying qualities, sheen, leveling, and uniformity of tint.

#### Tightness of Film

The tightness of film was determined by applying a coat of SW Semi Lustre Green over a section of each panel. This section was immediately inspected for any tendency of the Semi Lustre to soften the flat wall paint film. The tightness of film was also noted by the degree of sheen that remained on the Semi Lustre film after drying over night.

#### Washability

The scrub tests were conducted with Lava soap and water in the removal of various stains which also give an indication of the tightness of film.

These tests were conducted after the films had dried for

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one week in the case of the flat Whites but two weeks elapsed before the Creams or Ivory flats were tested. The tests were run on small sections approximating 2 inch squares which were coated with water soluble red ink, lead pencil (5B hardness), and gear grease. These stains were allowed to remain on the surface of the flat wall paint film for 24 hours. The washability was then determined by scrubbing each spot or stain until it was removed, keeping a record of the number of rubs required. In cases where the stain appeared permanent the scrubbing was discontinued at the end of 100 rubs. The condition of the scrubbed surface was noted, and a record was made of the amount of stain remaining and of the amount of paint removed.

#### "Ghosting"

Tests for "ghosting" were determined on the various flat Whites after they had been shaded to a deep slate with Lamp Black in oil. The regular tinted flat wall paints were applied as received.

In the determination of wet edge, a section of each panel was painted and allowed to stand for 6 minutes. Then painting was resumed special note was made as to the amount of lap on the upper section.

#### Hiding Power

For the determination of hiding power, all paints were applied on contrast sheets at a given spreading rate. In the case of the flat wall paints, the Whites were spread at 615 sq.ft./gal. and the Creams at 505 sq. ft./gal. All hiding charts were rated in numerical order from best to poorest.

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#### Color and Brightness

Color or brightness measurements were made on draw downs of .003 inch films on glass as these films produced complete hiding and could be rated more accurately than the normal brushouts on Upson board. Rating is given in two classes such as Blue Whites or Yellow Whites and rated in descending numerical order.

#### Flexibility

Flexibility tests were made according to Federal Specification TTP-51 A, Section F 21, which describes the procedure for the testing of flat wall paints. The paints were brushed on bright tin panels, dried for 18 hours and then baked for 5 hours at 105° to 110° C. They were then cooled for 15 minutes and bent over a 1/2 inch rod. The bend was then examined for cracks using a magnification of (8X).

#### Fineness of Grind

All grinds were determined on the SF Fineness Gauge. The lowest reading on this gauge is 1P and in many cases the grinds were so poor that they could not be determined with this gauge. In such cases, the reading is reported as zero fineness.

#### Discussion of Results

In general all samples had good package condition except Devco's No. 8002 Flat Wall Paint White and Benjamin Moore's Sani-Flat White and Cream, which were rated fair. Lucas' Durafilm Flat Cream was the only sample that had poor package condition. It had firm settling and was very difficult to stir into a uniform consistency.

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Pittsburgh Plate Glass' Wallhide Light Buff, Acme's Master Painters Flat Wall White, Lowe Brothers' Flowing Flat #28613 and Devco's No. 8002 Flat White were also difficult to stir to a uniform consistency.

In charts No. 1 and 2 we have listed the general comments on package condition, degree of settling, ease of stirring, odor in the package, wt/gal. and viscosity for all the flat Whites and Creams that were tested in this series.

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Chart No. 1

| Material Tested                       | Page Condition | Settling     | Stirring  | Odor in Package | Grind | Viscosity - #5 |                  |
|---------------------------------------|----------------|--------------|-----------|-----------------|-------|----------------|------------------|
|                                       |                |              |           |                 |       | wt/gal.        | orifice - SI Cup |
| Acme - No-Lustre Finish White         | Good           | Soft +       | Easy      | Sharp           | 0     | 13.12          | 19.8 sec.        |
| Lowe Bros. - Mellotone Flat White 622 | Ex.            | V. Slight    | "         | Sweet           | 1P    | 15.06          | 8.6 "            |
| SI - Flatstone White (Alternate A)    | G              | Absent       | "         | Normal          | 2M    | 13.49          | 25.5 "           |
| Lowe Bros. - H.B. Flat White          | Ex.            | Slight       | "         | Thinner         | 1P    | 13.09          | 15.5 "           |
| Acme - M.P. Flat Wall Finish          | Good           | Firm-        | Hard      | Sweet           | 0     | 13.09          | 27.5 "           |
| SI - Paintercraft #7                  | Ex.            | Slight       | Easy      | Normal          | 1P    | 12.20          | 27.8 "           |
| SI - Paintercraft #11                 | Ex.            | V. Slight    | "         | "               | 2P    | 11.91          | 8.1 " Red.       |
| Lowe Bros. - Flowing Flat Wall 28613  | Ex.            | V. Slight    | Hard      | Sweet           | 2M    | 12.65          | 12.5% (348)      |
| SI - One Coat Flat #10                | Ex.            | None         | Easy      | Thinner         | 2M    | 13.80          | 14.4 sec.        |
| Lucas - Durafilm Flat White           | Good           | Soft to firm | "         | Pungent         | 0     | 13.03          | 9.8 " Red.       |
| M. S. - Neu-tone Flat White           | Ex.            | V. Slight    | "         | Normal          | 0     | 13.27          | 18-3/4% (348)    |
| SI - Flatstone White (Regular)        | Ex.            | Soft         | "         | Thinner         | 1P    | 12.08          | 11.9 sec.        |
| Acme - H.B. Flat White                | Ex.            | V. Slight    | "         | Thinner         | 2M    | 16.10          | 35.0 " Surge     |
| DuPont - Flat White                   | Ex.            | V. Slight    | "         | Normal          | 1P    | 11.81          | 1/2 cup          |
| Moore - Sani-flat White               | Fair           | Firm         | "         | "               | 0     | 14.94          | 8.4 sec.         |
| Devco - 8002 Flat White               | Fair           | Firm         | Difficult | Thinner         | 0     | 14.93          | Surge            |
| Sears - One Coat Flat 2313            | Good           | Firm-        | Easy      | Musty           | 0     | 14.14          | 19.4 sec. Red.   |
| DuPont - Town & Country Flat White    | Good           | Slight       | "         | Normal          | 1P    | 11.79          | 15% (348)        |
| Wards - Super One Coat Flat White     | Ex.            | V. Slight    | "         | "               | 0     | 13.79          | 12.5% (348)      |
| Devco - Velour Flat White             | Ex.            | V. Slight    | "         | "               | 1P    | 13.22          | 11.4 sec.        |
| Pittsburgh - Wallhide Flat White 26-5 | Ex.            | V. Slight    | "         | Perfume         | 1P    | 12.62          | 24.8 " Red.      |

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Chart No. 2

| <u>Material Tested</u>            | <u>Pkg Condition</u> | <u>Settling</u> | <u>Stirring</u> | <u>Odor in Package</u> | <u>Grind Wt./gal.</u> | <u>Viscosity - #5 orifice - SW Cup</u> |
|-----------------------------------|----------------------|-----------------|-----------------|------------------------|-----------------------|----------------------------------------|
| DuPont - Flat Cream               | Ex.                  | V.Slight        | Easy            | Normal                 | 0                     | 11.79                                  |
| Pittsburgh - Wallhide Flat Buff   | Good                 | Firm-           | Difficult       | Sweet                  | 2M                    | 12.64                                  |
| Wards - Super One Coat Flat Cream | Ex.                  | None            | Easy            | Normal                 | 2M                    | 13.11                                  |
| Aome - No Lustre Flat Ivory       | Ex.                  | Slight          | Easy            | Thinner                | 1P                    | 13.10                                  |
| Lowe Bros. - Mellotone Flat Cream | Ex.                  | None            | Easy            | Sweet                  | 2M                    | 14.90                                  |
| Incoas - Durafilm Flat Cream      | Poor                 | Firm            | V. Diff.        | Normal                 | 0                     | 12.88                                  |
| M. S. - Neutone Flat Cream        | Ex.                  | V.Slight        | Easy            | Normal                 | 1P                    | 13.35                                  |
| Moore - Sani-flat Cream           | Fair                 | Firm            | Diff.           | Sl.Pungent             | 2M                    | 15.11                                  |
| Davos - Velour Cream 856 N        | Ex.                  | V.Slight        | Easy            | Normal                 | 1P                    | 13.16                                  |
| Sears - One Coat Flat 2321 Cream  | Ex.                  | Slight          | Easy            | Pungent                | 0                     | 13.18                                  |
| Sif - Flatstone Cream 15187       | Ex.                  | V.Slight        | Easy            | Normal                 | 2M                    | 12.27                                  |
|                                   |                      |                 |                 |                        |                       | 20. " - Surge 1/2 cup                  |
|                                   |                      |                 |                 |                        |                       | 17.7 "                                 |
|                                   |                      |                 |                 |                        |                       | 19.0 "                                 |
|                                   |                      |                 |                 |                        |                       | 38.2 " Surge 3/4 cup                   |
|                                   |                      |                 |                 |                        |                       | 32.2 "                                 |
|                                   |                      |                 |                 |                        |                       | 21.0 " - Surge 1/2 cup                 |
|                                   |                      |                 |                 |                        |                       | 7.2 "                                  |
|                                   |                      |                 |                 |                        |                       | 25.9 "                                 |
|                                   |                      |                 |                 |                        |                       | 21.1 "                                 |
|                                   |                      |                 |                 |                        |                       | 9.4 sec.- Red. 15 %                    |

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In charts No. 3 and No. 4 we have listed the comparative results of the various flats for brushing, hiding, wet edge, drying, angular sheen and uniformity of sheen. The majority of the flats tested were good in brushing properties, although there were several that were rated fair, and four that were rated poor. DuPont's Flat Wall Paint Cream, Wallhide 26-5 White, Acme's H.B. Flat Wall Finish, and Martin-Senour's Neutone 675 White, were considered too high in body or too sticky under the brush. The hiding properties were rated from best to poorest in numerical order as shown on charts No. 3 and No. 4.

All flats were O.K. for wet edge with the exception of Wallhide 26-5, Flat White, H.B. Flat Wall Finish (Acme), Neutone Flat White, Town & Country Flowing Flat, and Sears Roebuck's One Coat #2313.

Drying properties were good on all flats with the exception of Wallhide 26-5 Flat White, Acme's No Lustre White, and Acme's Master Painters Flat Wall Finish.

The uniformity of sheen was rather poor on a number of the flats so they will not be listed here but can be checked by referring to charts, No. 3 and 4. Sheen was checked by viewing the panel at a low angle of incidence, observing general uniformity of sheen on regular brush-out, and watching for any difference of sheen on a six minute lap.

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Chart No. 3

| Material Tested                       | Brushing       | Hid-Wet Edge<br>ing @ 6 min. | Driving                   |          | Color         | Angular<br>Sheen | Uniformity<br>of Sheen |
|---------------------------------------|----------------|------------------------------|---------------------------|----------|---------------|------------------|------------------------|
|                                       |                |                              | Set to, Overnite<br>Touch | Hardness |               |                  |                        |
| Acme-No-Lustre Fin. White             | Good-          | 5th o.k.                     | Pair 41 min.              | Sl.Soft  | 6th Yel. Wh.  | Medium           | Fair to Good           |
| Lowe Bros.-Mellotone Flat             | Sl. too        |                              |                           |          |               |                  |                        |
| White 622                             | much pull      | 6th o.k.                     | Pair 66 "                 | Hard     | 7th Bl. Wh.   | High             | Uneven                 |
| SV-Flatstone White (alter-<br>nate A) | Good           | 8th o.k.                     | Good 25 "                 | Hard     | 11th Bl. Wh.  | Med.High         | Fair to Good           |
| Lowe Bros.-H.B.Flat White             | Heavy          | 21st o.k.                    | Good 146 "                | Hard     | 3rd Bl. Wh.   | High             | Fair to Good           |
| Acme-M.P. Flat Wall Fin.              | Good           | 4th o.k.                     | Pair 40 "                 | Sl.Soft  | 7th Yel. Wh.  | Med.High         | Fair                   |
| ST-Paintercraft #7                    | Good           | 10th o.k.                    | Good 29 "                 | Hard     | 10th Bl. Wh.  | "                | Very Good              |
| ST-Paintercraft #11                   | Good           | 11th V.Sl.Short              | " 22 "                    | Hard     | 2nd Yel. Wh.  | High             | Fair to Good           |
| Lowe Bros.-Flowing Flat               | Good           | 17th o.k.                    | Sl.too<br>much 67 "       | Hard     | 1st Bl. Wh.   | Medium           | Poor                   |
| Wall 28613                            | Good           | 15th o.k.                    | Good 28 "                 | Hard     | 1st Yel.Wh.   | High             | Very Good              |
| ST-One Coat Flat #10                  | Sticky         | 1st o.k.                     | Good 48 "                 | Hard     | 8th Yel.Wh.   | Med.High         | Fair                   |
| Lucas - Durafilm Flat Wh.             |                |                              |                           |          |               |                  |                        |
| SV-Flatstone White (Reg-<br>ular)     | Good           | 9th o.k.                     | Good 21 "                 | Hard     | 8th Bl. Wh.   | Medium           | Fair                   |
| M.S.-Neutone Flat White               | Poor           | 7th Short                    | Good 23 "                 | Hard     | 4th Yel. Wh.  | Low to Med.      | Very Poor              |
| Acme-H.B. Flat White                  | Poor           | 19th Short                   | Pair-43 "                 | Medium   | 5th Bl. Wh.   | Medium           | Poor                   |
| DuPont-Flat White                     | Good           | 14th Sl.Short                | Good 39 "                 | Hard     | 5th Yel. Wh.  | Med. High        | Fair to good           |
| Moore-Saniflat White                  | Good-          | 20th "                       | Good-20 "                 | Hard     | 6th Bl. Wh.   | "                | "                      |
| Devco-8002 Flat White                 | Good           | 12th o.k.                    | Pair 79 "                 | Hard     | 4th Bl. Wh.   | High             | Good                   |
| Sears-One Coat Flat 2313              | Sl.Sticky      | 2nd Short                    | Pair-23 "                 | Hard     | 9th Yel. Wh.  | High             | Poor to Fair           |
| DuPont-Town & Country                 |                |                              |                           |          |               |                  |                        |
| Flat White                            | Sl.too<br>free | 16th Short                   | Good-36 "                 | Hard     | 3rd Yel. Wh.  | Medium           | Fair to Good           |
| Wards- Super One Coat                 | Good           | 3rd Sl.Short                 | " - 33 "                  | Hard     | 9th Bl. Wh.   | Med.High         | Poor to Fair           |
| Flat White                            | Good           | 18th Sl.Short                | Good 38 "                 | Hard     | 2nd Bl. Wh.   | "                | Fair to Good           |
| Devco-Velour Flat White               |                |                              |                           |          |               |                  |                        |
| Pittsburgh-Allhide Flat               | Poor           | 13th Short                   | Pair 28 "                 | Soft     | 10th Yel. Wh. | Medium           | Poor to Fair           |
| White 26-5                            | (Sticky)       |                              |                           |          |               |                  |                        |

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Chart No. 4

| Material Tested                 | Brushing     | Hiding | Wet Edge<br>@ 6 min. | Drying  |                          | Color | Angular<br>Sheen | Uniformity<br>of Sheen |
|---------------------------------|--------------|--------|----------------------|---------|--------------------------|-------|------------------|------------------------|
|                                 |              |        |                      | Flow    | Set to<br>Touch Hardness |       |                  |                        |
| DuPont-Flat Wall Cream Too Easy | Too Easy     | 5th    | o.k.                 | Good    | 38 min. V. Good          | --    | Medium           | Fair                   |
| Pittsburgh-Wallhide Flat Buff   | Good         | 7th    | o.k.                 | Fair    | 20 " Good                | --    | "                | "                      |
| Wards-Super One Coat Cr.        | "            | 1st    | o.k.                 | Good    | 47 " V. Good             | --    | Medium High      | Fair to Good           |
| Aome-No-Lustre Ivory            | V. Good      | 9th    | o.k.                 | Fair    | 34 " Good                | --    | Medium           | Fair                   |
| Low Bros.-Mellotone Flat Cream  | Flat V. Good | 8th    | o.k.                 | Good    | 65 " "                   | --    | Med. to High     | "                      |
| Lucas-Durafilm Flat Cr.         | Fair +       | 6th    | Sl. Short            | "       | 36 " V. Good             | --    | Medium           | Fair to Good           |
| M.S.-Nautone Flat Cream         | Sl. Sticky   | 3rd    | "                    | "       | 25 " Good                | --    | Low to Med.      | Poor                   |
| Moore-Saniflat Cream            | Good         | 10th   | Sl. Short            | Fair-15 | " "                      | --    | Medium           | "                      |
| Devco-Velour Cream              | Fair         | 11th   | o.k.                 | Good    | 42 " "                   | --    | "                | Fair                   |
| Sears-One Coat Flat Cr.         | Good         | 4th    | o.k.                 | Fair    | 128 " Ex.                | --    | "                | "                      |
| SW-Flattone Cream 15187         | Good         | 2nd    | o.k.                 | V. Good | 21 " Good                | --    | "                | Good                   |

In the following charts 5 and 6, we have recorded the results on washability under the heading of scrub tests. The sealing properties of the various flats, were determined by coating them with an enamel such as Semi-Lustre Green, and measuring the degree of sheen that remained on the film after the Semi-Lustre was dry. Our rating on non-uniformity of tint is also reported in Charts 5 and 6.

When the various flats were tested for washability by the removal of stains such as red ink, lead pencil and grease, it became rather difficult to make a direct evaluation. In many cases the paint would be removed before the stain and in other cases where the film was more resistant to water, a large number of rubs would be required. However, in both cases the films may be equally porous. However, this feature was checked by our tests on enamel hold out which were parallel to our tests on washability.

The tests on sealing properties or tightness of film showed considerable variation among the various flats. Some were very good in this respect and others were rated poor. This was also true in respect to uniformity of tint when the flats were shaded to a deep slate color. The purchased tinted flats such as Creams and Ivories did not show any ghosting and in general were definitely better in sealing properties or tightness of film than the whites.

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|                                     | Scrub Tests (Strokes)  |                                              |                             |   | Times Covered with Semi-Lustre |            | Uncoating when Tinted Gray |                         | Page-Cond. After Storage |
|-------------------------------------|------------------------|----------------------------------------------|-----------------------------|---|--------------------------------|------------|----------------------------|-------------------------|--------------------------|
|                                     | Red Pen-Ink oil Grease |                                              |                             |   | Immediate Softening Def.       | Sheen Poor | Amt. Slight                | Uniformity Fair to Good |                          |
| Acme-No-Lustre White                | 40 10 40               | Stain Remains                                | Paint Removed               | " | Slight                         | Fair       | V.Slight                   | "                       | "                        |
| Lowe Bros.-Jellotone Wh.            | 100 9 100              | "                                            | Paint Removed at 80 strokes | " | None                           | Good       | "                          | Good                    | "                        |
| SW-Flatstone (Present Alternate A)  | 20 7 80                |                                              |                             |   |                                |            |                            |                         |                          |
| Lowe Bros.-E.B. Flat White          | 40 12 70               | Pt. Removed-70 strokes                       |                             |   | Slight                         | Good       | V.Slight                   | Good                    |                          |
| Acme-H.P. Flat White                | 19 5 31                | Pt. remvd. Grease stain remaining-31 strokes |                             |   | Bad                            | Poor       | Definite                   | Fair to Good            |                          |
| SW-Paintercraft #7                  | 40 9 100               | Pt. & Grease partly remvd-100 strokes        |                             |   | Slight                         | Good       | None                       | Very Good               |                          |
| SW-Paintercraft #11                 | 30 6 34                | Grease stain remains                         |                             |   | Def.                           | Fair +     | Def.                       | Def. Uneven             |                          |
| Lowe Bros.-Flowing Flat Wall        | 47 10 100              | Paint remvd.-34 strokes                      |                             |   | None                           | V.Good     | Slight                     | Good                    |                          |
| SW-Paintercraft #10                 | 70 11 50               | Pt. partly remvd.100 "                       |                             |   | Slight                         | Good       | Absent                     | Very Good               |                          |
| Lucas-Durafilm Flat Wh.             | 50 5 50                | Pt. remvd. stain remains-100 strokes         |                             |   | Slight                         | Poor-fair  | "                          | Good                    |                          |
| SW-Flatstone (Regular)              | 50 10 100              | "                                            |                             |   | None                           | Good       | Definite                   | Def. Uneven             |                          |
| M.S.-Neufone Flat White             | 40 4 80                | Pt. remvd. stain remains-80 strokes          |                             |   | Def.                           | Fair-      | Absent                     | Good                    |                          |
| Acme-H.B. Flat White                | 60 4 70                | Pt. remvd. stain remains-80 strokes          |                             |   | Slight                         | Fair       | Bad                        | Poor                    |                          |
| DuPont-Flat Wall White              | 30 6 30                | Pt. remvd. stain remains-80 strokes          |                             |   | V.Slight                       | Poor       | V.Slight                   | Good                    |                          |
| Moore-Saniflat White                | 17 6 40                | Pt. partly remvd.-40 str."                   |                             |   | "                              | Fair +     | Slight                     | Fair to Good            |                          |
| Devco-8002 Flat White               | 5 10 100               | Pt. remvd. stain remains-100 strokes         |                             |   | Bad                            | Poor       | Absent                     | Good                    |                          |
| Sears-One Coat Flat Wh.             | 22 8 55                | Pt. remvd. stain remains-50 strokes          |                             |   | V.Slight                       | V.Poor     | Sl. to Def.                | Poor to Fair            |                          |
| DuPont-Town & Country Flat White    | 40 5 25                | Pt. remvd. stain remains-25 strokes          |                             |   | Slight                         | Fair-      | Slight                     | Fair to Good            |                          |
| Wards-Super One Coat Flat           | 100 10 100             | Pt. partly remvd-100 str.                    |                             |   | None                           | Fair       | Absent                     | Good                    |                          |
| Devco-Volour Flat White             | 100 9 100              | Part of stain remaining-100 strokes          |                             |   | V.Slight                       | Poor-Fair  | V. Slight                  | Good                    |                          |
| Pittsburgh-Flat White Wallhide 26-5 | 100 14 80              | Pt. remvd. stain remaining-100 strokes       |                             |   | Def.                           | Fair       | Slight                     | Sl. Uneven              |                          |

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Chart No. 6

| Material                      | Scrub Tests (Strokes)      |    |     |                                       | Sealing Proper-<br>ties coated with<br>Semi-Lustre |                   | Ghosting |                 | Page.<br>Cond.<br>After<br>Storage |
|-------------------------------|----------------------------|----|-----|---------------------------------------|----------------------------------------------------|-------------------|----------|-----------------|------------------------------------|
|                               | Red Pen-<br>Ink oil Grease |    |     |                                       | Immediate                                          | Sheen<br>When dry | Amt.     | Uniform-<br>ity |                                    |
| DuPont-Flat Wall Cream        | 100                        | 5  | 95  | Paint Removed<br>@ 95 strokes         | None                                               | Poor to Fair      | Absent   | Good            |                                    |
| Pittsburgh-Alkhide Flat Buff  | 100                        | 5  | 100 | Paint partly re-<br>moved @ 100 str.  | None                                               | Very Good         | Absent   | Good            |                                    |
| ards-Super One Coat Flat Cr.  | 50                         | 7  | 60  | Paint removed @<br>60 strokes.        | None                                               | Poor              | Absent   | Good            |                                    |
| Acme-No Lustre Ivory          | 26                         | 8  | 37  | Paint removed @<br>37 strokes         | Slight                                             | Fair              | Absent   | Good            |                                    |
| Love Bros.-Mellotone Flat Cr. | 100                        | 5  | 100 | Paint remvd-stain<br>remains-100 str. | V. Slight                                          | Fair              | Absent   | Good            |                                    |
| Lucas-Dorafilm Flat Cr.       | 100                        | 9  | 59  | Paint remvd-stain<br>remains-59 str.  | None                                               | Good              | Absent   | Good            |                                    |
| E.S.-Neufone Flat Cr.         | 5                          | 11 | 100 | Partial Paint re-<br>moved-100 str.   | None                                               | Good              | Absent   | Good            |                                    |
| Moore-Saniflat Cream          | 5                          | 5  | 100 | Slight Paint re-<br>moved-100 str.    | None                                               | Very Good         | Absent   | Good            |                                    |
| Devco-Velour Cream            | 12                         | 7  | 100 | @ 100 strokes no<br>Paint removal     | None                                               | Very Good         | Absent   | Good            |                                    |
| Saurs-One Coat Flat Cr.       | 14                         | 14 | 100 | Partial Paint re-<br>moved-100 str.   | None                                               | Good              | Absent   | Good            |                                    |
| S.-Flattone Cream             | 5                          | 5  | 100 | Partial Paint re-<br>moved-100 str.   | None                                               | Very Good         | Absent   | Good            |                                    |

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General Rating  
Flat Wall Paint Whites  
Chart No. 7

| Material                           | Brushing | Hiding | Wet Edge | Flow | Drying | Color | Uniformity of Sheen | Adhesability | Sealing Properties | Uniformity of Tint | Total |
|------------------------------------|----------|--------|----------|------|--------|-------|---------------------|--------------|--------------------|--------------------|-------|
| Acme-No Lustre Finish White        | 8        | 9      | 10       | 7    | 6      | 8     | 6                   | 6            | 6                  | 8                  | 76    |
| Lowe Bros.-Mellotone White 622     | 8        | 9      | 10       | 7    | 10     | 8     | 7                   | 7            | 7                  | 8                  | 81    |
| SI-Flatstone White (Alternate A)   | 9        | 8      | 10       | 8½   | 10     | 8     | 8                   | 10           | 9                  | 9                  | 89½   |
| Lowe Bros.-H.B. Flat Wall White    | 8        | 6      | 10       | 9    | 10     | 9½    | 8                   | 10           | 9                  | 6                  | 89½   |
| Acme-Master Painters Flat White    | 9        | 9      | 10       | 7    | 6      | 7     | 7                   | 7            | 6                  | 8                  | 76    |
| SI-Paintercraft #7                 | 9        | 8      | 10       | 8½   | 10     | 7     | 10                  | 9            | 9                  | 10                 | 90½   |
| SI-Paintercraft #11                | 9        | 8      | 9        | 9    | 10     | 7     | 8                   | 7            | 7½                 | 8                  | 82½   |
| Lowe Bros. Flowing Flat Wall Wh.   | 8½       | 7      | 10       | 10   | 19     | 10    | 6                   | 10           | 10                 | 9                  | 90½   |
| SI-One Coat Flat No. 1C            | 9        | 7      | 10       | 9    | 10     | 7     | 10                  | 7            | 10                 | 10                 | 88    |
| Lucas-Durafilm Flat White          | 7½       | 10     | 10       | 9    | 10     | 7     | 7                   | 7            | 6½                 | 9                  | 83    |
| SI-Flatstone White (Regular)       | 9        | 8      | 10       | 8½   | 10     | 8½    | 7                   | 8            | 8½                 | 7                  | 84½   |
| H.S.-Neutone Flat White            | 6½       | 9      | 8        | 9    | 10     | 7     | 6                   | 7            | 7                  | 9                  | 78½   |
| Acme-H.B. Flat White 45L 11        | 7        | 6      | 8        | 7    | 9      | 8½    | 6                   | 7            | 7                  | 6                  | 71½   |
| DuPont-Flat Wall White             | 9        | 7      | 9        | 9    | 10     | 7     | 8                   | 6            | 6                  | 9½                 | 80½   |
| Moore-Sandflat Pure White          | 9        | 6      | 8        | 9    | 10     | 8½    | 8                   | 10           | 8                  | 8                  | 84½   |
| Devco-No.8002 Flat White           | 9        | 7      | 10       | 7    | 10     | 9     | 8½                  | 9            | 7                  | 6½                 | 83    |
| Sears-One Coat Flat 2313           | 8        | 10     | 8        | 7    | 10     | 7     | 7                   | 7            | 6                  | 6½                 | 76½   |
| DuPont-Town & Country Flat White   | 9        | 7      | 8        | 9    | 8      | 8     | 8                   | 7            | 6½                 | 8                  | 78½   |
| Devco-Super One Coat White 75-1506 | 9        | 10     | 9        | 8    | 10     | 8     | 7                   | 7            | 7                  | 9                  | 84    |
| Devco-Velour Finish 455 N          | 9        | 6      | 9        | 9    | 10     | 10    | 8                   | 7            | 7                  | 9                  | 84    |
| Pittsburgh-Flat White 26-5         | 6        | 7      | 7        | 6½   | 7      | 7     | 6½                  | 6            | 7                  | 8½                 | 68½   |

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Chart No. 8

General Rating  
Flat Wall Paint Tints

|                              | Brushing | Hiding | Wet Edge | Flow | Drying | Color | Uniformity<br>of Sheen | Washability | Sealing<br>Properties | Uniformity<br>of Tint | Total | On Basis<br>of 100 |
|------------------------------|----------|--------|----------|------|--------|-------|------------------------|-------------|-----------------------|-----------------------|-------|--------------------|
| DuPont-Flat Wall Cream 375   | 8        | 9      | 10       | 9    | 10     | 10    | 7                      | 7           | 6½                    | 9                     | 75½   | 83.8               |
| Pittsburgh-Allhide Flat Buff | 9        | 8½     | 10       | 7    | 10     | 10    | 7                      | 6           | 10                    | 9                     | 76½   | 84.9               |
| Wards-Super One Coat Cream   | 9        | 10     | 10       | 8½   | 10     | 10    | 8                      | 8           | 6                     | 9                     | 78½   | 87.1               |
| Acme-No-Lustre Ivory         | 9½       | 8½     | 10       | 7    | 10     | 10    | 7                      | 6           | 7                     | 9                     | 74    | 82.1               |
| Lowy Bros.-Mellotone Cream   | 9½       | 8½     | 10       | 8    | 10     | 10    | 7                      | 7           | 7                     | 9                     | 76    | 84.3               |
| Lucas-Durafilm Cream         | 8½       | 9      | 8        | 9    | 10     | 10    | 8                      | 7           | 9                     | 9                     | 77½   | 86.0               |
| M.S.-Neutone Flat Cream      | 8        | 9      | 8        | 9    | 10     | 10    | 6                      | 9           | 9                     | 9                     | 77    | 85.5               |
| Moore-Saniflat Cream         | 9        | 7      | 8        | 6½   | 10     | 10    | 6                      | 9           | 10                    | 9                     | 74½   | 82.7               |
| Devco-Velour Cream           | 7        | 7      | 10       | 9    | 10     | 10    | 7                      | 9           | 10                    | 9                     | 78    | 86.6               |
| Sears-One Coat Flat Cream    | 9        | 9      | 10       | 6½   | 10     | 10    | 7                      | 9           | 9                     | 9                     | 78½   | 87.1               |
| S.T.-Flattone Cream          | 9        | 9      | 10       | 10   | 10     | 10    | 9                      | 10          | 10                    | 9                     | 86    | 95.4               |

Tints

(Color not rated because of variations in tints in different lines. Therefore, numerical totals are adjusted on basis of 100.)

Flat Wall Paints - White

Acme-No-Lustre Finish White  
Package Code- 4Y 12P 16310

|                          |     |             |
|--------------------------|-----|-------------|
| Pigment                  | 63% |             |
| Titanium Calcium Pigment | 33% |             |
| Lithopone                | 46% |             |
| Asbestine                | 19% |             |
|                          |     | <u>100%</u> |

|                  |     |             |
|------------------|-----|-------------|
| Vehicle          | 37% |             |
| (1) Flatting Oil | 52% |             |
| Mineral Spirits  | 34% |             |
| Japan Drier      | 14% |             |
|                  |     | <u>100%</u> |

(1) Linseed Oil 50%  
Mineral Spirits 50%

SWP-Flattone White (Alternate A)  
Package Code- 15185 C 2551

|               |       |               |
|---------------|-------|---------------|
| Pigment       | 59%   |               |
| Lithopone     | 50.0% |               |
| Zinc Sulphide | 37.5% |               |
| Whiting       | 12.5% |               |
|               |       | <u>100.0%</u> |

|                  |     |             |
|------------------|-----|-------------|
| Vehicle          | 41% |             |
| Vegetable Oils   | 22% |             |
| Resins           | 5%  |             |
| Driers & Thinner | 73% |             |
|                  |     | <u>100%</u> |

Acme W. L. and C. Works  
Master Painter's Flat White  
Package Code- 49 L 13 1491 D

No analysis given

Lowe Bros.-Mellotone Flat White 622  
Package Code- B 2121 622

|                          |       |               |
|--------------------------|-------|---------------|
| Pigment                  | 68%   |               |
| Lithopone                | 79.5% |               |
| Titanium Calcium Pigment | 11.5% |               |
| Silicates                | 9.0%  |               |
|                          |       | <u>100.0%</u> |

|                       |       |               |
|-----------------------|-------|---------------|
| Vehicle               | 32%   |               |
| Vegetable Drying Oils | 34.5% |               |
| Drier & Thinner       | 65.5% |               |
|                       |       | <u>100.0%</u> |

Lowe Brothers  
H. B. Flat White  
Package Code- B 1361 25842

|                    |               |
|--------------------|---------------|
| Lithopone          | 37.5%         |
| Titanium Calcium   | 15.9%         |
| Magnesium Silicate | 6.6%          |
| Drying Oils        | 14.7%         |
| Driers & Thinners  | 26.3%         |
|                    | <u>100.0%</u> |

Sherwin-Williams  
Paintercraft Flat Wall Paint White no. 7  
Package Code 26607 C 2051

|                   |     |             |
|-------------------|-----|-------------|
| Pigment           | 53% |             |
| Titanium Calcium  | 71% |             |
| Titanium Dioxide  | 12% |             |
| Calcium Carbonate | 17% |             |
|                   |     | <u>100%</u> |

|                   |     |             |
|-------------------|-----|-------------|
| Vehicle           | 47% |             |
| Resin             | 5%  |             |
| Vegetable Oils    | 19% |             |
| Driers & Thinners | 76% |             |
|                   |     | <u>100%</u> |

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Acme W. L. & C. Works  
H. B. Flat White  
Package Code- 49 L 11 49 1 D

No analysis Given

Benjamin Moore & Co.  
Sani-Flat White  
Package Code- SFW 5717

|                     |       |               |
|---------------------|-------|---------------|
| Pigment             | 67.0% |               |
| Lithopone           |       | 83.4%         |
| Magnesium Silicate  |       | 16.6%         |
|                     |       | <u>100.0%</u> |
| Vehicle             | 33.0% |               |
| Treated Drying Oils |       | 37.4%         |
| Mineral Spirits     |       | 62.6%         |
|                     |       | <u>100.0%</u> |

Sears Roebuck & Co.  
One Coat Flat Paint 2313  
Package Code- 2313 D 18 1A

|                         |       |               |
|-------------------------|-------|---------------|
| Pigment                 | 60.0% |               |
| Titanium Dioxide        |       | 24.1%         |
| Lithopone               |       | 13.0%         |
| Magnesium Silicate      |       | 6.6%          |
| Calcium Sulphate        |       | 56.3%         |
|                         |       | <u>100.0%</u> |
| Vehicle                 | 40.0% |               |
| Resin                   |       | 8.5%          |
| Processed Vegetable Oil |       | 24.5%         |
| Drier                   |       | 1.9%          |
| Mineral Spirits         |       | 63.2%         |
| Water                   |       | 1.9%          |
|                         |       | <u>100.0%</u> |

DuPont de Nemours E I & Co. Inc.  
Flat White  
Package Code- C 493027 375 750

|                          |     |             |
|--------------------------|-----|-------------|
| Pigment                  | 55% |             |
| Titanium Calcium Pigment |     | 85%         |
| Calcium Carbonate        |     | 11%         |
| Silicates                |     | 4%          |
|                          |     | <u>100%</u> |
| Vehicle                  | 45% |             |
| Resin                    |     | 4%          |
| Drier                    |     | 10%         |
| Vegetable Oils           |     | 26%         |
| Mineral Spirits          |     | 60%         |
|                          |     | <u>100%</u> |

Devco & Raynolds  
No. 8002 Flat White  
Package Code- 3 L5 T 8003

|                         |               |
|-------------------------|---------------|
| Lithopone               | 29.5%         |
| Titanium Calcium        | 21.1%         |
| Calcium Carbonate       | 4.3%          |
| Magnesium Silicate      | 12.7%         |
| Resins                  | 1.7%          |
| Processed Oils          | 11.5%         |
| Mineral Thinner & Drier | 19.2%         |
|                         | <u>100.0%</u> |

DuPont de Nemours E I & Co. Inc.  
Town & Country Flat White  
Package Code- C 51939 377 754

|                          |     |             |
|--------------------------|-----|-------------|
| Pigment                  | 54% |             |
| Titanium Calcium Pigment |     | 85%         |
| Calcium Carbonate        |     | 11%         |
| Silicates                |     | 4%          |
|                          |     | <u>100%</u> |
| Vehicle                  | 36% |             |
| Resin                    |     | 3%          |
| Drier                    |     | 10%         |
| Vegetable Oils           |     | 25%         |
| Mineral Spirits          |     | 62%         |
|                          |     | <u>100%</u> |

0007-SWP-044589

0007-SWP-000113959

Montgomery Ward & Co.  
Super One Coat Flat White  
Package Code- 1991 S 200

|                              |               |
|------------------------------|---------------|
| Pigment                      | 63.0%         |
| Titanium Dioxide             | 24.1%         |
| Zinc Sulphide Barium Pigment | 21.9%         |
| Asbestine                    | 17.0%         |
| Linseed Oil                  | 3.2%          |
| *Varnish                     | 17.6%         |
| Drier and Mineral Spirits    | 16.2%         |
|                              | <u>100.0%</u> |

|                   |               |
|-------------------|---------------|
| Vehicle           | 37.0%         |
| *Fixed Fatty Oils | 34.0%         |
| Resins            | 18.0%         |
| Mineral Spirits   | 48.0%         |
|                   | <u>100.0%</u> |

Pittsburgh Plate Glass Co.  
Wallhide Flat White 26-5  
Package Code- 26-5 D-6508

|                          |               |
|--------------------------|---------------|
| Titanium White           | 40.6%         |
| Silica & Silicates       | 20.0%         |
| Vegetable Oils           | 12.7%         |
| Resins                   | .7%           |
| Mineral Spirits & Driers | 26.0%         |
|                          | <u>100.0%</u> |

Flat Wall Paints - Cream

DuPont de Nemours E I & Co. Inc.  
Flat Cream  
Package Code- C 502062 375 763

|                          |             |
|--------------------------|-------------|
| Pigment                  | 54%         |
| Titanium Calcium Pigment | 80%         |
| Calcium Carbonate        | 11%         |
| Silicates                | 4%          |
| (Orange Oxide)           |             |
| (Chrome Yellow)          | 5%          |
|                          | <u>100%</u> |

|                 |             |
|-----------------|-------------|
| Vehicle         | 46%         |
| Resins          | 3%          |
| Drier           | 10%         |
| Vegetable Oils  | 25%         |
| Mineral Spirits | 62%         |
|                 | <u>100%</u> |

Devco & Reynolds  
Veloopr Flat White  
Package Code- E 8 U 459 74747

|                   |               |
|-------------------|---------------|
| Pigment           | 62.8%         |
| Calcium Titanox   | 79.6%         |
| Calcium Carbonate | 20.4%         |
|                   | <u>100.0%</u> |

|                          |                |
|--------------------------|----------------|
| Vehicle                  | 37.2%          |
| Resins                   | 4.65%          |
| Processed Vegetable Oils | 33.45%         |
| Mineral Thinners         | 53.60%         |
| Turpentine               | 7.50%          |
| Driers                   | 1.80%          |
|                          | <u>100.00%</u> |

Pittsburgh Plate Glass Co.  
Wallhide Flat Buff  
Package Code- 26-12 C-65661

|                          |               |
|--------------------------|---------------|
| Titanium White           | 40.6%         |
| Silica & Silicates       | 20.0%         |
| Vegetable Oils           | 12.7%         |
| Resins                   | .7%           |
| Mineral Spirits & Driers | 26.0%         |
|                          | <u>100.0%</u> |

Tinted with Pure Tinting Colors

0007-SWP-044590

Montgomery Ward & Co.  
Super One Coat Flat Cream  
Package Code 1021 S 211

|                            |       |               |
|----------------------------|-------|---------------|
| Pigment                    | 62.2% |               |
| Titanium Calcium Pigment   |       | 39.8%         |
| Titanium Magnesium Pigment |       | 19.1%         |
| Titanium Dioxide           |       | 3.3%          |
| Linseed Oil                |       | 3.3%          |
| *Varnish                   |       | 17.8%         |
| Drier & Mineral Spirits    |       | 16.7%         |
|                            |       | <u>100.0%</u> |

|                   |       |               |
|-------------------|-------|---------------|
| Vehicle           | 37.8% |               |
| *Fixed Fatty Oils |       | 42.0%         |
| Resins            |       | 13.0%         |
| Mineral Spirits   |       | 45.0%         |
|                   |       | <u>100.0%</u> |

Tinted with pure color,  
viz: Iron Oxide

Lowe Brothers  
Mellotone Flat Cream  
Package Code- B 2131 628

|                          |       |               |
|--------------------------|-------|---------------|
| Pigment                  | 68.0% |               |
| Lithopone                |       | 78.0%         |
| Titanium Calcium Pigment |       | 11.0%         |
| Silicates                |       | 9.0%          |
| C. P. Chrome Yellow      |       | 1.3%          |
| Ochre                    |       | .7%           |
|                          |       | <u>100.0%</u> |

|                       |       |               |
|-----------------------|-------|---------------|
| Vehicle               | 32.0% |               |
| Vegetable Drying Oils |       | 34.5%         |
| Drier & Thinner       |       | 65.5%         |
|                       |       | <u>100.0%</u> |

Acme W. L. & G. Works  
No-Lustre Finish  
Package Code- 4 Y 17P 1601 D

|                       |     |               |
|-----------------------|-----|---------------|
| Pigment               | 60% |               |
| Zinc Sulphide Pigment |     |               |
| (Barium)              |     | 80.0%         |
| Magnesium Silicate    |     | 20.0%         |
|                       |     | <u>100.0%</u> |

|                  |     |               |
|------------------|-----|---------------|
| Vehicle          | 40% |               |
| (1) Flatting Oil |     |               |
| (Linseed Base)   |     | 55.0%         |
| Japan Drier      |     | 15.0%         |
| Mineral Spirits  |     | 30.0%         |
|                  |     | <u>100.0%</u> |

(1) Vegetable Oils 50%  
Mineral Spirits 50%

Tinted with Pure Color, viz: Chrome  
Yellow

John Lucas & Company, Inc.  
Durafilm Flat Cream  
Package Code- T 16 F 1671

|                    |             |
|--------------------|-------------|
| Titanium Pigment   | 60%         |
| Silica & Silicates | 4%          |
| Calcium Carbonate  | 6%          |
| Tinting Pigment    | 1%          |
| Treated Oil        | 7%          |
| Varnish            | 12%         |
| Volatile Thinner   | 20%         |
|                    | <u>100%</u> |

0007-SWP-044591

0007-SWP-000113961

Martin-Senour  
NewTone Flat Cream  
Package Code- 696 M 1821

|                        |       |               |
|------------------------|-------|---------------|
| Pigment                | 60.5% |               |
| Lithopone              |       | 43.5%         |
| Titanium Pigment       |       | 37.5%         |
| Silicates & Carbonates |       | 19.0%         |
|                        |       | <u>100.0%</u> |

|                       |       |               |
|-----------------------|-------|---------------|
| Vehicle               | 39.5% |               |
| Vegetable Drying Oils |       | 23.0%         |
| Mineral Spirits       |       | 64.0%         |
| Japan Drier           |       | 13.0%         |
|                       |       | <u>100.0%</u> |

Tinted with Pure Colors In Oil

Devco & Raynolds  
Velour Cream 856 N  
Package Code- E19U 856 76842

No analysis given

SW-Flattone Cream 15187  
Package Code- 15187 C 2091

|                   |     |             |
|-------------------|-----|-------------|
| Pigment           | 53% |             |
| Titanium Dioxide  |     | 13%         |
| Calcium Carbonate |     | 21%         |
| Titanium Calcium  |     | 66%         |
|                   |     | <u>100%</u> |

|                         |     |             |
|-------------------------|-----|-------------|
| Vehicle                 | 47% |             |
| Vegetable Oil           |     | 24%         |
| Resins                  |     | 5%          |
| Mineral Spirits & Drier |     | 71%         |
|                         |     | <u>100%</u> |

Benjamin Moore & Co.  
Sani-Flat Cream  
Package Code- SF 1 5620

|                    |       |               |
|--------------------|-------|---------------|
| Pigment            | 67.8% |               |
| Lithopone          |       | 73.0%         |
| Magnesium Silicate |       | 24.3%         |
| Ochre              |       | 2.1%          |
| Chrome Yellow      |       | ..6%          |
|                    |       | <u>100.0%</u> |

|                     |       |               |
|---------------------|-------|---------------|
| Vehicle             | 32.2% |               |
| Treated Drying Oils |       | 37.8%         |
| Mineral Spirits     |       | 62.2%         |
|                     |       | <u>100.0%</u> |

Sears, Roebuck & Co.  
One Coat Flat Cream 2321  
Package Code- 2321 A30 1A

|                    |       |               |
|--------------------|-------|---------------|
| Pigment            | 60.0% |               |
| Lithopone          |       | 61.0%         |
| Zinc Sulphide      |       | 10.0%         |
| Barium Sulphate    |       | 10.0%         |
| Magnesium Silicate |       | 19.0%         |
|                    |       | <u>100.0%</u> |

|                 |       |               |
|-----------------|-------|---------------|
| Vehicle         | 40.0% |               |
| Linseed Oil     |       | 24.4%         |
| Resins          |       | 8.5%          |
| Japan Drier     |       | 2.4%          |
| Mineral Spirits |       | 64.7%         |
|                 |       | <u>100.0%</u> |

Tinted with Chrome Yellow, Red Oxide  
and Lamp Black

0007-SWP-044592

0007-SWP-000113962

Section II. House Paints - Whites & CreamsProcedure of Testing

The various properties such as package condition, degree of settling, ease of stirring, odor, consistency, grind, weight per gallon and viscosity were determined in the same manner as in the case of the flat wall paints.

The brushing tests were run on beveled siding panels that had been previously primed with Rx 450 Undercoater. The primer was permitted to dry for three days before the panels were used on these tests. After application of the various house paints, the panels were immediately inspected for flow and sagging tendencies.

All hiding determinations were made on contrast sheets. The White house paints were spread at 455 sq. ft./gal. and the Creams at 700 sq. ft./gal. Each set of paints were rated from best to poorest in numerical order.

Drying properties such as "set to touch" and "through dry" were determined in the laboratory from draw downs on glass of .003 inch films.

As indicated in chart No. 10 we feel that Pittsburgh Plate Glass Co.'s Titania White 1-54, Lucas' Super Outside White and Ward's Super House Paint Cream #12 were definitely too sticky for satisfactory brushing. DuPont's #40 Outside White was rated poor in flow and Ward's Super House Paint #12 Cream was definitely too high in flow. However, in general most all of the house paints were quite satisfactory in so far as our tests would indicate.

0007-SWP-044593

Chart No. 9

## House Paints - Whites &amp; Creams

| Material                        | Page<br>Cond. | Settling  | Stirring | Odor    | Consist-<br>ency | Grind | Wt/gal | Viscosity #3<br>orifice-SW<br>Cup |
|---------------------------------|---------------|-----------|----------|---------|------------------|-------|--------|-----------------------------------|
| Wards-Super House Paint #11     | Ex.           | None      | Easy     | Normal  | Normal           | 0     | 16.45  | 29.7                              |
| Devco-Outside White 547-N       | Good          | Slight    | Diff.    | Varnish | Normal           | 1P    | 15.32  | 27.                               |
| Master Mix House Paint 143      | Good          | Slight    | Easy     | Thinner | Thin             | 0     | 16.14  | 22.1                              |
| Moorewhite Ex. Paint White      | Fair          | Firm      | V. Diff. | Normal  | Normal           | 1P    | 17.03  | 24.1                              |
| P.P.G.-Titanic O W 1-54         | Fair          | Def.      | Easy     | Normal  | Full body        | 0     | 15.55  | 54.1                              |
| New Era O W 1-A-122             | Ex.           | Trace     | Easy     | Normal  | Full body        | 0     | 16.10  | 30.1                              |
| Monarch O W                     | Ex.           | None      | Easy     | Normal  | Normal           | 0     | 16.12  | 33.7                              |
| Lowe Bros.-High Standard Wh.    | Ex.           | Trace     | Easy     | Normal  | Normal           | 1P    | 15.78  | 28.2                              |
| Lucas-Super Outside White       | Good          | V. Slight | Easy     | Normal  | Normal           | 2M    | 15.96  | 26.7                              |
| SW-Gloss White                  | Ex.           | Trace     | Easy     | Normal  | Normal           | 1P    | 16.47  | 30.9                              |
| DuPont-#40 Outside White        | Ex.           | Trace     | Easy     | Normal  | Puffing          | 1P    | 15.61  | 36.4                              |
| Wards-Super House Paint #12 Cr. | Ex.           | None      | Easy     | Normal  | Enamel Type      | 0     | 16.88  | 40.9                              |
| Devco-Cream #550                | Fair          | Soft +    | Diff.    | Normal  | Normal           | 2M    | 16.31  | 19.2                              |
| Master Mix Cream #154           | Ex.           | Slight    | Easy     | Normal  | Thin             | 1P    | 14.59  | 13.9                              |
| Moore-House Paint Cream #29     | Good          | Slight    | Diff.    | Thinner | Normal           | 1P    | 16.27  | 19.6                              |
| P.P.G.-Jersey Cream 1-330       | Ex.           | Trace     | Easy     | Thinner | Normal           | 1P    | 16.26  | 30.1                              |
| Acme-New Era Cream 140          | Good          | Slight    | Easy     | Normal  | Normal           | 0     | 15.46  | 41.                               |
| Monarch-Cream 501               | Good          | None      | Easy     | Normal  | Normal           | 0     | 15.41  | 26.7                              |
| Lowe Bros.-H.S. Cream 205       | Ex.           | None      | Easy     | Normal  | Normal           | 1P    | 15.12  | 38.3                              |
| Lucas-Tinted Gloss Cream 279    | Fair +        | Firm      | Diff.    | Normal  | Normal           | 1P    | 15.21  | 42.9                              |
| SW-Cream 462                    | Ex.           | None      | Easy     | Normal  | Normal           | 2M    | 15.41  | 32.9                              |
| DuPont Cream 138                | Ex.           | Slight    | Easy     | Normal  | Normal           | 1P    | 14.47  | 33.4                              |

0007-SWP-044594

Chart No. 10

House Paints - Whites & Creams

|                                 | Brushing        | Hiding             | Flow          | Gloss     | Drying<br>Set to Touch | Through<br>Dry | Color        |
|---------------------------------|-----------------|--------------------|---------------|-----------|------------------------|----------------|--------------|
| Wards Super House Paint #11     | Good (Sl. Pull) | 5th Good           | Good          | Good H.P. | 5 hr. 55 min.          | Good           | Good         |
| Devco-Outside White 547-N       | Good (Sl. Pull) | 2nd Fair (Normal)  | Good          | Good H.P. | 4 hr. 50 min.          | V. Good        | Good         |
| Master Mix House Paint 143      | "               | 4th "              | "             | "         | 5 " 55 "               | Good           | "            |
| Moorwhite Ex. Paint White       | Excellent       | 11th-Poorest       | "             | Low       | 5 " 45 "               | "              | "            |
| P.P.G-Titanic O W 1-54          | V. Sticky       | Best               | "             | Good H.P. | 4 " 50 "               | V. Good        | V. Sl. Dirty |
| Acme-New Era O W 1-A-122        | Excellent       | 9th                | "             | "         | 8 " --                 | Good           | Good         |
| Monarch O W                     | Good            | 7th                | "             | "         | 5 " 45 "               | "              | "            |
| Lowe Bros.-High Standard Wh.    | Good            | 3rd Fair +         | "             | Good      | 5 " 5 "                | V. Good        | V. Sl. Dirty |
| Lucas-Super Outside White       | Sticky          | 10th Fair (Normal) | "             | Good      | 8 " --                 | Good           | Good         |
| SW-Gloss White 471              | Good            | 8th Fair +         | "             | "         | 8 " 25 "               | "              | "            |
| DuPont-#40 Outside White        | Good            | 6th Poor           | "             | "         | 5 " 30 "               | "              | "            |
| Wards-Super House Paint #12 Cr. | Sticky          | 5th                | Too High      | V. High   | 6 " --                 | OK             | --           |
| Devco-Cream #550                | Good            | 10th Fair (Normal) | "             | Med. H.P. | 5 hrs. 55 min.         | OK             | --           |
| Master Mix Cream #154           | Too easy        | 11th-Poorest       | Normal        | High H.P. | 5 hrs. 55 min.         | OK             | --           |
| Moore-House Paint Cream #29     | Ex.             | 9th Fair (Normal)  | "             | Med.      | 6 " 5 "                | OK             | --           |
| P.P.G.-Jersey Cream 1-330       | Good            | 7th                | "             | "         | 8 " 15 "               | OK             | --           |
| Acme-New Era Cream 140          | Good            | 4th                | "             | High      | 5 " 25 "               | OK             | --           |
| Monarch Cream 501               | Good            | Best               | Slightly High | "         | 5 " 36 "               | OK             | --           |
| Lowe Bros.-H.S. Cream 305       | Good            | 2nd                | Normal        | "         | 7 " 30 "               | OK             | --           |
| Lucas-Tinted Gloss Cr. 279      | Good            | 8th                | "             | "         | 5 " 40 "               | OK             | --           |
| SW-Cream 462                    | Ex.             | 6th Fair (Normal)  | "             | Med       | 6 " --                 | OK             | --           |
| DuPont-Cream 138                | Ex.             | 3rd                | "             | "         | 6 " --                 | OK             | --           |

0007-SWP-044595

100%

Exterior House Paints - White

Montgomery Ward & Co.  
Super House Paint #11  
Package Code- F 2271 S 11

|                            |        |
|----------------------------|--------|
| Pigment 66.1%              |        |
| Basic Carbonate White Lead | 15.5%  |
| *Leaded Zinc Oxide         | 50.5%  |
| Titanium Dioxide           | 16.0%  |
| Asbestine                  | 18.0%  |
|                            | 100.0% |
| *Basic Sulphate White Lead | 17.7%  |
| Zinc Oxide                 | 32.8%  |
|                            | 50.5%  |
| Vehicle 33.9%              |        |
| Linseed Oil                | 85.0%  |
| Japan Drier                | 15.0%  |
|                            | 100.0% |

Sears, Roebuck & Co.  
Master-Mixed House Paint 143  
Package Code- 143 B E 2 1R

|                              |        |
|------------------------------|--------|
| Pigment 65.7%                |        |
| *White Lead                  | 39.3%  |
| Zinc Oxide                   | 25.7%  |
| **Titanium Magnesium Pigment | 28.5%  |
| Titanium Dioxide             | 6.5%   |
|                              | 100.0% |
| Vehicle 34.3%                |        |
| Refined Linseed Oil          | 85.0%  |
| Drier                        | 5.0%   |
| Mineral Spirits              | 10.0%  |
|                              | 100.0% |

|                             |        |
|-----------------------------|--------|
| *Basic Carbonate White Lead | 67.5%  |
| Basic Sulphate White Lead   | 32.5%  |
|                             | 100.0% |
| **Titanium Dioxide          | 30.0%  |
| Magnesium Silicate          | 70.0%  |
|                             | 100.0% |

Pittsburgh Plate Glass Co.  
Titanic Outside White 1-54  
Package Code- 1 54 D 3755

|                       |        |
|-----------------------|--------|
| 35% Leaded Zinc Oxide | 29.2%  |
| Basic Lead Carbonate  | 10.9%  |
| Titanium Dioxide      | 4.4%   |
| Titanium Magnesium    | 19.3%  |
| Raw Linseed Oil       | 22.6%  |
| Heat Treated Linseed  | 9.7%   |
| Mineral Spir-its      | 2.4%   |
| Driers                | 1.7%   |
|                       | 100.0% |

Devco & Raynolds  
Outside White Gloss 547 N  
Package Code- F 13 U 547 80873

|                               |        |
|-------------------------------|--------|
| Pigment 63.9%                 |        |
| Lead Titanate                 | 5.0%   |
| Titanium Magnesium            | 32.8%  |
| Titanium Dioxide              | 4.2%   |
| Zinc Oxide                    | 29.0%  |
| *White Lead                   | 29.0%  |
|                               | 100.0% |
| *Basic Lead Sulphate          | 53.8%  |
| Basic Lead Carbonate          | 46.2%  |
|                               | 100.0% |
| Vehicle 36.1%                 |        |
| Processed Linseed & Tung Oils | 88.0%  |
| Mineral Thinner & Drier       | 12.0%  |
|                               | 100.0% |

Benjamin Moore & Co.  
Moorwhite Exterior Paint White  
Package Code- P90 5116

|                         |        |
|-------------------------|--------|
| Pigment 69.3%           |        |
| Basic Lead Carbonate    | 43.4%  |
| Titanium Barium Pigment | 36.6%  |
| Magnesium Silicate      | 20.0%  |
|                         | 100.0% |
| Vehicle 30.7%           |        |
| Linseed Oil             | 73.0%  |
| Mineral Spirits         | 15.8%  |
| Japan Drier             | 11.7%  |
|                         | 100.0% |

Acme White Lead & Color Works  
New Era Outside White  
Package Code- 1A 122 195 1D

|                            |      |
|----------------------------|------|
| Pigment 65%                |      |
| (1) White Lead             | 33%  |
| Zinc Oxide                 | 30%  |
| Titanium Magnesium Pigment | 32%  |
| Titanium Dioxide           | 5%   |
|                            | 100% |

|                          |      |
|--------------------------|------|
| Vehicle 35%              |      |
| Raw Linseed Oil          | 73%  |
| Processed Linseed Oil    | 8%   |
| Soybean Oil              | 7%   |
| Japan Drier              | 12%  |
|                          | 100% |
| (1) Basic Lead Carbonate | 53%  |
| Basic Lead Sulphate      | 47%  |
|                          | 100% |

0007-SWP-044596

Martin-Senour  
Monarch Outside White  
Package Code- 100 M 2121

|                            |               |
|----------------------------|---------------|
| Basic Carbonate-White Lead | 12.5%         |
| Basic Sulphate-White Lead  | 12.0%         |
| Zinc Oxide                 | 16.0%         |
| Titanium Dioxide           | 5.0%          |
| Titanium Magnesium Pigment | 19.5%         |
| Linseed Oil                | 31.5%         |
| Japan Drier                | 3.5%          |
|                            | <u>100.0%</u> |

Lowe Brothers  
High Standard White  
Package Code- B 2091 328

|                             |               |
|-----------------------------|---------------|
| Pigment                     | 65.0%         |
| *White Lead                 | 35.0%         |
| Titanium Magnesium          | 29.0%         |
| Zinc Oxide                  | 30.0%         |
| Titanium Dioxide            | 6.0%          |
|                             | <u>100.0%</u> |
| *Basic Carbonate White Lead | 54.5%         |
| Basic Sulfate White Lead    | 45.5%         |
|                             | <u>100.0%</u> |
| Vehicle                     | 35.0%         |
| Linseed Oil                 | 90.0%         |
| Drier & Thinner             | 10.0%         |
|                             | <u>100.0%</u> |

John Lucas & Co.  
Super Outside White  
Package Code- 3 FOWS F 1421

|                            |             |
|----------------------------|-------------|
| Pigment                    | 64%         |
| Basic Carbonate White Lead | 35%         |
| Basic Sulphate White Lead  | 5%          |
| Zinc Oxide                 | 25%         |
| Titanium Dioxide           | 4%          |
| Titanium Magnesium         | 31%         |
|                            | <u>100%</u> |
| Vehicle                    | 36%         |
| Linseed Oil                | 91%         |
| Japan Thinner & Drier      | 9%          |
|                            | <u>100%</u> |

Sherwin-Williams  
Gloss White  
Package Code- 471 C 2201

|                             |             |
|-----------------------------|-------------|
| Pigment                     | 66%         |
| *S-W Oxlo Lead-Zinc Pigment | 43%         |
| White Lead Carbonate        | 27%         |
| Titanium Magnesium          | 27%         |
| Titanium Dioxide            | 3%          |
|                             | <u>100%</u> |
| *Basic Sulphate Wht. Lead   | 15%         |
| Zinc Oxide                  | 28%         |
|                             | <u>43%</u>  |
| Vehicle                     | 34%         |
| Linseed Oil                 | 90%         |
| Japan Drier                 | 10%         |
|                             | <u>100%</u> |

DuPont de Nemours E I & Co. Inc.  
#40 Outside White  
Package Code- C 474072 301 756

|                             |              |
|-----------------------------|--------------|
| Pigment                     | 63%          |
| Titanium Magnesium Pigment  | 32%          |
| *White Lead                 | 33%          |
| Zinc Oxide                  | 30%          |
| Titanium Oxide              | 5%           |
|                             | <u>100 %</u> |
| *Basic Carbonate White Lead | 51%          |
| Basic Sulphate white Lead   | 49%          |
| Vehicle                     | 37%          |
| Linseed Oil                 | 89%          |
| Drier                       | 5%           |
| Mineral Spirits             | 8%           |
|                             | <u>100%</u>  |

0007-SWP-044597

Exterior House Paints - Tints

Montgomery Ward & Co.  
Super House Paint #12 Cream  
Package Code- 2091 S 12

Pigment 66.7%  
Basic Carbonate White Lead 27.3%  
\*Leaded Zinc Oxide 50.0%  
Titanium Dioxide 4.2%  
Asbestine 18.5%  
100.0%  
\*Basic Sulphate White Lead 17.5%  
Zinc Oxide 32.5%  
50.0%  
Vehicle 33.3%  
Linseed Oil 85.0%  
Japan Drier 10.0%  
Turpentine 5.0%  
100.0%

Sears, Roebuck & Co.  
Master Mixed Cream #154  
Package Code- 154 A G 26 28

Pigment 60.0%  
Basic Sulphate White Lead 37.0%  
Zinc Oxide 30.0%  
\*Titanium Magnesium Pigment 27.0%  
Magnesium Silicate 6.0%  
100.0%  
Vehicle 40.0%  
Linseed Oil 86.0%  
Drier 4.0%  
Mineral Spirits 10.0%  
100.0%  
\*Titanium Dioxide 30.0%  
Magnesium Silicate 70.0%  
100.0%

Tinted with Ferric Oxide, Chrome Yellow, Acme W. L. & C. Works  
& Lamp Black

Pittsburgh Plate Glass Co.  
Jersey Cream 1-330  
Package Code- 1 330 D 5630

35% Leaded Zinc Oxide 32.4%  
Lead Titrate 16.6%  
Magnesium Silicate 15.7%  
Raw Linseed Oil 24.1%  
Heat Treated Linseed Oil 7.8%  
Mineral Spirits 2.3%  
Driers 1.1%  
100.0%

Devco & Reynolds  
Cream #550  
Package Code- H 12 T 550 55599

Pigment 63.2%  
Lead Titanate 19.4%  
Zinc Oxide 24.3%  
Basic Lead Carbonate 14.6%  
Magnesium Silicate- 24.3%  
Barium Sulphate 14.6%  
Tinting Pigments 2.8%  
100.0%

Vehicle 36.8%  
Processed Linseed & Tung Oils 87.9%  
Mineral Thinner & Drier 12.1%  
100.0%

Benjamin Moore & Co.  
House Paint Cream  
Package Code- P 29 5530

Pigment 65.3%  
Basic Lead Carbonate 49.0%  
Zinc Oxide 18.9%  
Titanium Magnesium Pigment 15.8%  
Chrome Yellow 1.1%  
Mineral Iron Oxide 0.1%  
Magnesium Silicate 15.1%  
100.0%  
Vehicle 34.7%  
Linseed Oil 84.4%  
Japan Drier 12.5%  
Turpentine 3.1%  
100.0%

Package Code- 1 A 140 1061 D

Pigment 64%  
(1) White Lead 32.0%  
Zinc Oxide 32.0%  
Titanium Magnesium Pigment 36.0%  
100.0%

Vehicle 36%  
Linseed Oil 88.0%  
Japan Drier 12.0%  
100.0%

(1) Basic Lead Carbonate 17%  
Basic Lead Sulphate 83%

Tinted with Pure Colors, Viz:  
Venetian Red and Chrome Yellow

0007-SWP-044598

Martin-Senour  
Monarch Cream 501  
Package Code- 501 M 2091

|                            |               |
|----------------------------|---------------|
| Basic Sulfate-White Lead   | 22.0%         |
| Zinc Oxide                 | 18.0%         |
| Titanium Magnesium Pigment | 23.5%         |
| Coloring Material          | 0.9%          |
| Linseed Oil                | 32.1%         |
| Japan Drier                | 3.5%          |
|                            | <u>100.0%</u> |

John Lucas & Co.  
Tinted Gloss Cream  
Package Code- 279 F 150

|                      |             |
|----------------------|-------------|
| Pigment 64%          |             |
| White Lead Carbonate | 29%         |
| White Lead Sulfate   | 21%         |
| Zinc Oxide           | 39%         |
| Ferric Oxide         | 2%          |
| Silica & Silicates   | 9%          |
|                      | <u>100%</u> |
| Vehicle 36%          |             |
| Linseed Oil          | 92%         |
| Drier & Turpentine   | 8%          |
|                      | <u>100%</u> |

DuPont de Nemours E I & Co. Inc.  
Cream 138  
Package Code- C 492487 301 802

|                            |             |
|----------------------------|-------------|
| Pigment 61%                |             |
| Titanium Magnesium Pigment | 43%         |
| Zinc Oxide                 | 33%         |
| Basic Sulphate White Lead  | 17%         |
| Titanium Oxide             | 7%          |
| Tinting Colors             | Trace       |
|                            | <u>100%</u> |
| Vehicle 39%                |             |
| Linseed Oil                | 92%         |
| Drier                      | 5%          |
| Mineral Spirits            | 3%          |
|                            | <u>100%</u> |

Lowe Brothers  
High Standard Cream 305  
Package Code- B 2101 305

|                          |               |
|--------------------------|---------------|
| Pigment 63.5%            |               |
| Basic Sulfate White Lead | 29.5%         |
| Zinc Oxide               | 25.5%         |
| Titanium Magnesium       | 37.5%         |
| Magnesium Silicate       | 6.5%          |
| C. P. Chrome Yellow      | .5%           |
| Ferric Oxide             | .5%           |
|                          | <u>100.0%</u> |
| Vehicle 36.5%            |               |
| Linseed Oil              | 87.5%         |
| Drier & Thinner          | 12.5%         |
|                          | <u>100.0%</u> |

Sherwin-Williams  
Cream 462  
Package Code- 462 C 2101

|                             |             |
|-----------------------------|-------------|
| Pigment 63%                 |             |
| *S-W Oxlo Lead-Zinc Pigment | 50%         |
| White Lead Carbonate        | 8%          |
| Titanium Magnesium          | 13%         |
| Lead Titanate               | 10%         |
| Magnesium Silicate          | 19%         |
|                             | <u>100%</u> |
| *Basic Sulfate White Lead   | 20%         |
| Zinc Oxide                  | 30%         |
|                             | <u>50%</u>  |
| Vehicle 37%                 |             |
| Linseed Oil                 | 87%         |
| Japan Drier                 | 13%         |
|                             | <u>100%</u> |

0007-SWP-044599

0007-SWP-000113969

Section III. Undercoaters and Exterior PrimersProcedure of Testing

Our testing procedure for the evaluation of the various primers was very similar to the procedure used in testing of house paints. The brushing tests were run on new wood panels so that they could be used in the determination of sealing properties. After the primers were applied they were dried for four days and then recoated with SWP Gloss White. The following morning the panels were inspected for flat spots which indicated any lack of sealing in the priming coat.

For the determination of hiding comparisons, the primers were brushed on contrast sheets at 470 sq. ft./gal. and were rated for hiding in numerical order from best to poorest.

With the exception of three products, all primers were quite satisfactory. Sears Roebuck's Master Mixed Undercoater #10 was definitely too sticky and Martin Senour's 350 primer was too high in viscosity for proper brushing qualities. Sear's primer and Moor-white primer were also too high in flow for this class of goods.

General Conclusion - Parts 1, 2, and 3.

In this evaluation we do not feel that the ratings that have been given to the various products are necessarily representative of general production. However, we do feel that any weaknesses, that are noted in the products as shown in this report, should be kept in mind and other production batches of the same material should be checked to see if it is a representative weakness of the particular formulation.

0007-SWP-044600

0007-SWP-000113970

Chart No. 12

Undercoaters & Exterior Primers

| <u>Material</u>                  | <u>Page</u><br><u>Cond.</u> | <u>Settling</u>    | <u>Stirring</u> | <u>Odor</u>   | <u>Consist-</u><br><u>ency</u> | <u>Grind</u> | <u>Wt./gal</u> | <u>Viscosity</u><br><u>#3 SW Cup</u> |
|----------------------------------|-----------------------------|--------------------|-----------------|---------------|--------------------------------|--------------|----------------|--------------------------------------|
| Sears-Master Mixed Undercoater   | Ex.                         | Trace              | Easy            | Sweet         | Thin<br>(Normal)               | 1P           | 14.06          | 17.0 sec.                            |
| Moorwhite Primer                 | Good                        | Soft               | Easy            | Varnish Thin  | (Normal)                       | 1P           | 12.29          | 14.5 "                               |
| Monarch 350 Primer               | Good                        | Slight             | Easy            | Normal Medium | (Normal)                       | 1P           | 15.20          | 34.7 "                               |
| Ward-Master Painters Undercoater | Ex.                         | Trace              | Easy            | "             | (Sl.High)<br>Thin body         | OP           | 14.94          | 10.8 "                               |
| Devco-Undercoater #559           | Fair                        | Firm to Hard Diff. | "               | "             | Thin to<br>medium              | 1P           | 14.96          | 20.2 "                               |
| Pittsburgh-Sunproof Primer       | Good                        | Slight             | Easy            | "             | Full body                      | OP           | 13.87          | 41.9 "                               |
| Low Bros.-High Std. Primer       | Ex.                         | Trace              | Easy            | Thinner       | Thin<br>(Normal)               | 2M           | 14.94          | unredacted<br>11.0, sec.             |
| Lucas-House Paint Primer White   | Fair                        | Firm               | Diff.           | Sl.Sharp      | "                              | OP           | 15.38          | 14.9 "                               |
| SW-Undercoater 450               | Ex.                         | Trace              | Easy            | Normal        | "                              | OP           | 15.46          | 14.0 "                               |

0007-SWP-044601

Chart No. 13

Undercoaters or Exterior Primers

| <u>Material</u>                    | <u>Brushing</u>           | <u>Hiding</u> | <u>Flow</u>                | (New Wood)<br><u>Gloss</u> | <u>Drying</u> | <u>Sealing</u> |
|------------------------------------|---------------------------|---------------|----------------------------|----------------------------|---------------|----------------|
| Sears-Master Mixed Undercoater     | Too much drag             | Best-Gray     | Considerable<br>(Too High) | Eggshell                   | 4 hr. 50 min. | Good           |
| Moerwhite Primer                   | Very Good                 | 7th-Best      |                            | "                          | 3 " 55 "      | "              |
| Monarch 350 Primer                 | Bather Sticky             | 5th-Best      | OK                         | "                          | 4 " 40 "      | "              |
| Wards-Master Painter's Undercoater | Free (V.Good)             | 6th-Best      | Fair +                     | Low<br>Eggshell            | 4 " 50 "      | "              |
| Devco-Undercoater #539             | Slight Pull               | 8th-Best      | Good                       | Eggshell                   | 3 " 10 "      | "              |
| Pittsburg-Sunproof Primer          | Slight Pull<br>OK reduced | 2nd-Best      | Fair-                      | House Paint<br>Gloss       | 5 " 35 "      | "              |
| Low Bros.-High Std. Primer         | Very Good                 | 9th-Best      | Fair +<br>Std.             | Eggshell                   | 3 " 40 "      | "              |
| Lucas-House Paint Primer White     | Free (Good)               | 3rd-Best      | Fair-                      | Low<br>Eggshell            | 5 " 25 "      | "              |
| SN-Undercoater 450                 | Free (V.Good)             | 4th-Best      | Fair +                     | Low<br>Eggshell            | 4 " 30 "      | "              |

0007-SWP-044602

0007-SWP-000113972

Primers

Sears, Roebuck & Co.  
Master Mixed Undercoater  
Package Code- 10 A F17 1R

|                           |       |               |
|---------------------------|-------|---------------|
| Pigment                   | 60.7% |               |
| Basic Sulphate White Lead |       | 37.9%         |
| Titanium Dioxide          |       | 18.1%         |
| Barium Sulphate           |       | 19.1%         |
| Silicates-                |       | 24.9%         |
|                           |       | <u>100.0%</u> |

|                   |       |               |
|-------------------|-------|---------------|
| Vehicle           | 39.3% |               |
| Linseed Oil       |       | 58.5%         |
| *Tung Oil Varnish |       | 22.3%         |
| Drier             |       | 3.8%          |
| Turpentine        |       | 2.1%          |
| Mineral Spirits   |       | 13.3%         |
|                   |       | <u>100.0%</u> |

|                 |       |               |
|-----------------|-------|---------------|
| *Volatile       | 64.7% |               |
| Mineral Spirits |       | 100.0%        |
| Non Volatile    | 35.3% |               |
| Tung Oil        |       | 50.8%         |
| Resins          |       | 49.2%         |
|                 |       | <u>100.0%</u> |

Martin-Sencur  
Monarch 350 Primer  
Package Code- 350 M 1621

|                            |               |
|----------------------------|---------------|
| Basic Carbonate White Lead | 40.0%         |
| Titanium Magnesium Pigment | 24.0%         |
| Linseed Oil                | 20.0%         |
| Treated Oils*              | 9.0%          |
| Japan Drier                | 3.0%          |
| Mineral Spirits            | 4.0%          |
|                            | <u>100.0%</u> |

|                 |             |
|-----------------|-------------|
| *China Wood Oil | 50%         |
| Mineral Spirits | 50%         |
|                 | <u>100%</u> |

Devco & Reynolds  
Devco House Paint Undercoater 539  
Package Code- 539 3 L 10 T

|                         |       |               |
|-------------------------|-------|---------------|
| Pigment                 | 64.8% |               |
| Titanium Barium Pigment |       | 37.3%         |
| Basic Lead Carbonate    |       | 37.8%         |
| Magnesium Silicate      |       | 24.9%         |
|                         |       | <u>100.0%</u> |

|                               |       |               |
|-------------------------------|-------|---------------|
| Vehicle                       | 35.2% |               |
| Processed Linseed & Tung Oils |       | 54.1%         |
| Resins                        |       | 4.1%          |
| Mineral Thinners & Driers     |       | 41.8%         |
|                               |       | <u>100.0%</u> |

Benjamin Moore & Co.  
Moerwhite Primer  
Package Code- P91 5014

|                            |       |               |
|----------------------------|-------|---------------|
| Pigment                    | 51.6% |               |
| Basic Lead Carbonate       |       | 36.1%         |
| Titanium Magnesium Pigment |       | 42.1%         |
| Titanium Dioxide           |       | 9.7%          |
| Silica                     |       | 12.1%         |
|                            |       | <u>100.0%</u> |

|                   |       |               |
|-------------------|-------|---------------|
| Vehicle           | 48.4% |               |
| Linseed Oil       |       | 40.0%         |
| Other Drying Oils |       | 14.4%         |
| Japan Driers      |       | 10.8%         |
| Mineral Spirits   |       | 34.8%         |
|                   |       | <u>100.0%</u> |

Montgomery Ward & Co.  
Master Painter's Undercoater  
Package Code- 1701 UC 11

|                  |       |               |
|------------------|-------|---------------|
| Pigment          | 62.0% |               |
| *White Lead      |       | 50.2%         |
| Titanium Dioxide |       | 7.1%          |
| Zinc Oxide       |       | 15.7%         |
| Asbestine        |       | 27.0%         |
|                  |       | <u>100.0%</u> |

|                      |               |
|----------------------|---------------|
| *Basic Lead Sulphate | 16.9%         |
| Basic Lead Carbonate | 83.1%         |
|                      | <u>100.0%</u> |

|                         |       |               |
|-------------------------|-------|---------------|
| Vehicle                 | 38.0% |               |
| Linseed Oil             |       | 64.0%         |
| Drier & Mineral Spirits |       | 19.4%         |
| Turpentine              |       | 16.6%         |
|                         |       | <u>100.0%</u> |

Pittsburgh Plate Glass Co.  
SunProof Primer  
Package Code- 1-201 D-1801

|                          |               |
|--------------------------|---------------|
| Titanium Oxide           | 6.9%          |
| Magnesium Silicate       | 11.5%         |
| 35% Leaded Zinc Oxide    | 37.0%         |
| Heat Treated Linseed Oil | 20.7%         |
| Raw Linseed Oil          | 21.6%         |
| Mineral Spirits & Driers | 2.3%          |
|                          | <u>100.0%</u> |

0007-SWP-044603

0007-SWP-000113973

Lowe Brothers  
High Standard Primer  
Package Code- B 2041 260

|                            |               |  |
|----------------------------|---------------|--|
| Pigment                    | 62.5%         |  |
| Basic Carbonate White Lead | 61.0%         |  |
| Titanium Dioxide           | 10.0%         |  |
| Magnesium Silicate         | 29.0%         |  |
|                            | <u>100.0%</u> |  |

|                 |               |  |
|-----------------|---------------|--|
| Vehicle         | 37.5%         |  |
| Linseed Oil     | 59.0%         |  |
| Tung Oil        | 2.5%          |  |
| Synthetic Resin | 2.0%          |  |
| Drier & Thinner | 36.5%         |  |
|                 | <u>100.0%</u> |  |

Sherwin-Williams  
Undercoater 450  
Package Code- 450 C 2271 A

|                             |             |  |
|-----------------------------|-------------|--|
| Pigment                     | 64.5%       |  |
| *SW Czo Leaded Zinc Pigment | 16%         |  |
| Basic Carbonate White Lead  | 51%         |  |
| Titanium Magnesium          | 25%         |  |
| Titanium Dioxide            | 2%          |  |
| Silica & Silicates          | 6%          |  |
|                             | <u>100%</u> |  |

|                         |             |  |
|-------------------------|-------------|--|
| Vehicle                 | 35.5%       |  |
| Linseed Oil             | 64%         |  |
| Drier & Mineral Spirits | 36%         |  |
|                         | <u>100%</u> |  |

|                            |            |
|----------------------------|------------|
| *Basic Sulphate White Lead | 6%         |
| Zinc Oxide                 | 10%        |
|                            | <u>16%</u> |

John Lucas & Company  
House Paint Primer, White  
Package Code- T G P F 1391

|                            |             |
|----------------------------|-------------|
| Basic Carbonate White Lead | 23%         |
| Basic Sulphate White Lead  | 7%          |
| Zinc Oxide                 | 13%         |
| *Titanium Pigment          | 13%         |
| Magnesium Silicate         | 9%          |
| Linseed Oil                | 24%         |
| Turpentine                 | 7%          |
| Japan Drier                | 5%          |
|                            | <u>100%</u> |

|                    |     |
|--------------------|-----|
| *Titanium Dioxide  | 50% |
| Magnesium Silicate | 50% |

O. R. Jagd  
M. Van Loo

0007-SWP-044604

0007-SWP-000113974