

NATIONAL LEAD COMPANY

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# NATIONAL LEAD COMPANY

Member of the Products Company

## Paint Materials for the Protection and Decoration of Wood, Brick, Stone, Concrete, Stucco, Metal

NEW YORK, N. Y., 111 Broadway  
BOSTON, MASS., National-Boston Lead Co., 570 Albany Street  
BUFFALO, N. Y., 115 Oak Street  
CHICAGO, ILL., 970 West 10th Street  
CINCINNATI, OHIO, 635 Freeman Avenue  
CLEVELAND, OHIO, 820 West Superior Avenue

PHILADELPHIA, PA., John T. Lewis & Bros. Co., Widener Building  
PITTSBURGH, PA., National Lead & Oil Co., 316 Fourth Avenue  
ST. LOUIS, MO., 722 Chestnut Street  
SAN FRANCISCO, CAL., 2242 24th Street

### Dutch Boy Products

**Dutch Boy White Lead.** Pure white lead ground in pure linseed oil. Just as when lead paint has been the standard for generations, so has Dutch Boy White Lead been a standard among white leads for years. Light out of every tin painters use Dutch Boy. Set paste as well as heavy paste form. 100-lb. cans, 50, 25 and 12½-lb. pails.

**Dutch Boy Red Lead in Oil.** A very highly oxidized grade of pure red lead ground in pure linseed oil. The paint is heavy. The exceptionally high strength of this paint is due to the hardness of the pure red lead and the purity of the linseed oil. It is a paint of excellent brushing qualities. It is a paint of extreme durability. 100-lb. cans, 50, 25 and 12½-lb. pails.

**Dutch Boy Liquid Red Lead.** A ready-mixed, pure red lead paint. It is a paint of exceptional strength and durability. It is a paint of excellent brushing qualities. It is a paint of extreme durability. 100-lb. cans, 50, 25 and 12½-lb. pails.

**Dutch Boy Wall Primer.** A special primer for sealing and first coat of paint. It is a paint of exceptional strength and durability. It is a paint of excellent brushing qualities. It is a paint of extreme durability. 100-lb. cans, 50, 25 and 12½-lb. pails.

**Dutch Boy Linseed Oil.** A pure, refined, well settled, pure linseed oil conforming to the specifications of the American Society for Testing Materials. 1 and 5-gal. sealed cans.

**Dutch Boy Flattening Oil.** A skillfully blended flattening oil for use with white lead to produce flat and semigloss paint for interior walls and woodwork. When white lead is thinned with flattening oil, the results which it produces are many points of excellence. It is easy to apply. It has good hiding power. It is durable. It is washable. It is durable. It is washable. 1 and 5-gal. sealed cans.

### General Painting Specifications

Following are general specifications for the painting of interior and exterior surfaces.

**Preparation of Surface—(1) Woodwork.** New woodwork shall be smooth with sandpaper where required and dusted clear before priming. From old woodwork which has been painted before, all loose paint, scale, dirt and dust shall be removed. Wash off with benzine or turpentine all parts where liquid paint remover has been used.

Before priming new woodwork, all knots and sap streaks shall receive one coat of shellac varnish brushed out thin. After the priming coat is thoroughly dry, putty up all knots, holes, dents, cracks, and other defects with putty composed of white lead and whiting.

**(2) Plaster.** Before applying any paint to plaster, either new or old, see that it is clean and smooth. Fill all cracks with plaster of paris or approved patching plaster. Where new plaster to be painted is not properly aged, it shall be treated before priming with a solution made by dissolving 2 lbs. of zinc sulphate in 1 gal. of water.

**(3) Brick and Stone.** New brickwork shall not be primed until dry. At least 2 or 3 days of dry weather shall precede



painting. If any mortar has become loose or damaged, all such places shall be pointed with mortar before applying paint. After priming, correct small defects in the surface with putty.

**(4) Stucco and Concrete.** Stucco, or concrete shall be allowed to stand and dry at least six months before paint is applied. If painted before this time, it shall be treated with a solution made by dissolving 2 lbs. of zinc sulphate in 1 gal. of water.

**(5) Metal Work.** Iron, steel and other metal work shall be cleaned thoroughly of all loose paint, dirt, oil, grease, rust, scale and other foreign matter before paint is applied.

**The Paint and Its Application—(6) Designation of Paint to be Used.** All woodwork, plaster, brick, stone, concrete and stucco which are to be painted, shall be painted with National Lead Company's Dutch Boy White Lead, Dutch Boy Flattening Oil, Dutch Boy Wall Primer, pure linseed oil, pure turpentine and pure drier mixed according to the formulas hereinafter designated for each kind of work. All metal shall be painted with National Lead Company's Dutch Boy Red Lead in Oil, Dutch Boy Liquid Red Lead, or pure dry red lead and pure linseed oil mixed according to formulas hereinafter given for each specific purpose.

**(7) Tinting Materials.** In producing tints and shades, John T. Lewis & Bros. Co. colors-in-oil or those of equally high grade shall be used. If colors-in-oil are used in quantities large enough to affect the consistency of the paint, the quantities of thinners named in the formulas shall be increased in amount equal to one-half the weight of the tinting material.

**(8) Applying the Paint.** No exterior painting shall be done when rain or snow is falling, during fog, or until after dew or moisture which may be on the surface has completely disappeared. Painting done in winter weather shall only be done when the temperature is above 50° F. and when all surfaces are dry. All exterior work shall be allowed to dry from 2 to 4 days before the next coat is applied and at least 24 hours shall be allowed between coats of interior work.

### Formulas

The following white lead formulas take no account of tinting materials. See paragraph No. 7 when adding colors to the formulas.

It will be noted that the formulas for painting exterior wood are on the basis of Dutch Boy's 50% paste White Lead as well as heavy paste white lead. For flat effects inside, the heavy paste is to be preferred as the higher oil content of the soft paste will give more of a sheen to surfaces painted with it.

**(9) New Woodwork Outside.** Three coats of paint, mixed as follows, shall be applied to new unpainted woodwork outside:

(a) Priming coat (b) Second coat

Soft Paste Heavy Paste Soft Paste Heavy Paste

Dutch Boy White Lead 100 lb. 100 lb. 100 lb. 100 lb.

Pure linseed oil 3 1/2 gal. 4 gal. 1 1/2 gal. 1 1/2 gal.

Pure turpentine 2 gal. 2 gal. 1 1/2 gal. 1 1/2 gal.

Pure drier 1 pt. 1 pt. 1 pt. 1 pt.

(c) Third coat

Soft Paste Heavy Paste

Dutch Boy White Lead 100 lb. 100 lb.

Pure linseed oil 2 1/2 gal. 3 1/2 gal.

Pure turpentine 1 pt. 1 pt.

Pure drier 1 pt. 1 pt.

\*When heated oil is used, reduce drier to 1/2 pt.

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(10) **Old Woodwork Outside.** Two coats of paint as follows shall be applied in repainting old woodwork outside:

|                                    | (a) Priming coat | (b) Second coat |
|------------------------------------|------------------|-----------------|
| Dutch Boy White Lead (heavy paste) | 100 lb.          | 100 lb.         |
| Pure linseed oil                   | 3 gal.           | 2 gal.          |
| Pure turpentine                    | 1 pt.            | None            |
| Pure drier                         | 1 pt.            | 1 pt.           |

\*When boiled oil is used, reduce drier to ½ pt.  
†If liquid red lead is to be used, specify Dutch Boy Liquid Red Lead No. 1 (natural red lead color) for first coat, Dutch Boy Liquid Red Lead No. 6 (light brown) for second coat and Dutch Boy Liquid Red Lead No. 7 (dark brown) for third coat.

(11) **New Woodwork Inside.** Three coats of paint, mixed as follows, shall be applied to new unpainted woodwork inside:

|                                    | (a) Priming coat | (b) Second coat |
|------------------------------------|------------------|-----------------|
| Dutch Boy White Lead (heavy paste) | 100 lb.          | 100 lb.         |
| Pure linseed oil                   | 3 gal.           | 2 gal.          |
| Pure turpentine                    | 1 pt.            | None            |
| Pure drier                         | 1 pt.            | 1 pt.           |

(c) Third coat (Flat finish)  
(d) Third coat (Eggshell gloss finish)  
Dutch Boy White Lead (heavy paste) 100 lb.  
Pure linseed oil 2 gal.  
Pure turpentine 1 pt.  
Pure drier 1 pt.

(12) **Old Woodwork Inside.** Two coats of paint shall be used in repainting woodwork inside. For a flat finish, mix the paint for the first and second coats according to formula B in paragraph 11. For an eggshell gloss finish, mix the paint for the first coat according to formula B in paragraph 11 and according to formula C for the finishing coat.

(13) **Plaster Walls.** Three coats of paint shall be applied to plaster which has never before been painted. The priming coat shall be Dutch Boy Wall Primer or the following:

Dutch Boy White Lead (heavy paste) 100 lb.  
Pure linseed oil 3 gal.  
Pure turpentine 1 pt.  
Pure drier 1 pt.

(14) **Brick and Stucco.** Three coats of paint, mixed as follows, shall be applied to brick or stucco which has never before been painted:

|                                    | (a) Priming coat | (b) Second coat |
|------------------------------------|------------------|-----------------|
| Dutch Boy White Lead (heavy paste) | 100 lb.          | 100 lb.         |
| Pure linseed oil                   | 3 gal.           | 2 gal.          |
| Pure turpentine                    | 1 pt.            | None            |
| Pure drier                         | 1 pt.            | 1 pt.           |

(c) Third coat (Flat finish)  
(d) Third coat (Eggshell gloss finish)  
Dutch Boy White Lead (heavy paste) 100 lb.  
Pure linseed oil 2 gal.  
Pure turpentine 1 pt.  
Pure drier 1 pt.

\*When boiled oil is used, reduce drier to ½ pt.  
†If liquid red lead is to be used, specify Dutch Boy Liquid Red Lead No. 1 (natural red lead color) for first coat, Dutch Boy Liquid Red Lead No. 6 (light brown) for second coat and Dutch Boy Liquid Red Lead No. 7 (dark brown) for third coat.

(15) **Concrete and Stone.** Three coats of paint, mixed as follows, shall be applied to concrete and stone which have never before been painted:

|                                    | (a) Priming coat | (b) Second coat |
|------------------------------------|------------------|-----------------|
| Dutch Boy White Lead (heavy paste) | 100 lb.          | 100 lb.         |
| Pure linseed oil                   | 3 gal.           | 2 gal.          |
| Pure turpentine                    | 1 pt.            | None            |
| Pure drier                         | 1 pt.            | 1 pt.           |

(c) Third coat (Flat finish)  
(d) Third coat (Eggshell gloss finish)  
Dutch Boy White Lead (heavy paste) 100 lb.  
Pure linseed oil 2 gal.  
Pure turpentine 1 pt.  
Pure drier 1 pt.

\*When boiled oil is used, reduce drier to ½ pt.  
†If liquid red lead is to be used, specify Dutch Boy Liquid Red Lead No. 1 (natural red lead color) for first coat, Dutch Boy Liquid Red Lead No. 6 (light brown) for second coat and Dutch Boy Liquid Red Lead No. 7 (dark brown) for third coat.

In repainting concrete and stone, apply two coats. Mix the paint for the first coat according to formula B in paragraph 15 and according to formula C or D for the second coat.  
A semigloss finish on brick, stone, concrete and stucco can be secured by applying over the second coat one or two coats of paint made with 100 lb. heavy paste white lead, ½ gal. flattening oil and ¾ gal. spar varnish. For brick red finish on outside brick thin the color with Dutch Boy Flattening Oil.

(16) **Metal Work, Exterior and Interior.** Three coats of paint, mixed as follows, shall be applied to exterior and interior metal work:

|                           | (a) First coat | (b) Second coat (light brown) |
|---------------------------|----------------|-------------------------------|
| Dutch Boy Red Lead-in-oil | 100 lb.        | 100 lb.                       |
| Pure linseed oil          | 25 gal.        | 25 gal.                       |
| Lampblack-in-oil          | None           | 12 oz.                        |
| Pure turpentine           | 1 pt.          | 1 pt.                         |
| Pure drier                | 1 pt.          | 1 pt.                         |

(c) Third coat (dark brown)  
Dutch Boy Red Lead-in-oil 100 lb.  
Pure linseed oil 25 gal.  
Lampblack-in-oil 12 oz.  
Pure turpentine 1 pt.  
Pure drier 1 pt.

or  
Dutch Boy Red Lead-in-oil 100 lb.  
Pure linseed oil 25 gal.  
Lampblack-in-oil 12 oz.  
Pure turpentine 1 pt.  
Pure drier 1 pt.

\*If liquid red lead is to be used, specify Dutch Boy Liquid Red Lead No. 1 (natural red lead color) for first coat, Dutch Boy Liquid Red Lead No. 6 (light brown) for second coat and Dutch Boy Liquid Red Lead No. 7 (dark brown) for third coat.

Where a dark color other than brown is desired for the finishing coat, one of the following formulas shall be used according to the color desired:

|                           | Light green | Dark green |
|---------------------------|-------------|------------|
| Dutch Boy Red Lead-in-oil | 100 lb.     | 100 lb.    |
| Pure linseed oil          | 25 gal.     | 25 gal.    |
| Medium chrome yellow      | 30 lb.      | 12 lb.     |
| Chinese or prussian blue  | 12 lb.      | 7 lb.      |
| Pure turpentine           | 1 pt.       | 2 pt.      |
| Pure drier                | 1 pt.       | 2 pt.      |

Black  
Dutch Boy Red Lead-in-oil 100 lb.  
Pure linseed oil 25 gal.  
Chinese or prussian blue 16 lb.  
Lampblack-in-oil 12 oz.  
Pure turpentine 1 pt.  
Pure drier 1 pt.

If liquid red lead is to be used, specify Dutch Boy Liquid Red Lead according to the finishing color desired, that is: No. 8—light green; No. 9—dark green or No. 5—black.

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