

NATIONAL LEAD COMPANY

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

NEW YORK, N. Y., 111 Broadway
BUFFALO, N. Y., 116 Oak Street
CHICAGO, ILL., 900 West 18th Street
CINCINNATI, OHIO, 659 Freeman Ave.
CLEVELAND, OHIO, 820 West Superior Avenue

ST. LOUIS, MO., 722 Chestnut Street
SEATTLE, WASH., 973 John Street
PORTLAND, ORE., 1211 N. W. Glisan Street
SAN FRANCISCO, CAL., 2240 24th St.
LOS ANGELES, CAL., 932 Wilson Street

BOSTON, MASS., National-Boston Lead Co., 800 Albany Street
PHILADELPHIA, PA., John T. Lewis & Bros. Co., Widener Building
PITTSBURGH, PA., National Lead & Oil Co. of Pennsylvania, 316 Fourth Avenue

All-Purpose Soft Paste White-Lead

A quick-mixing white-lead which is equally suitable for inside as well as outside use. This improved lead-in-oil not only gives a fine gloss finish but flats perfectly without a trace of shiner or flash. At the same time it brings the advantages of quick-mixing.

It is a modern product in every sense of the word—convenient, adaptable, economical. Yet it retains that durability for which white-lead has long been famous. Comes in 12½, 25 and 50-lb. pails, 100-lb. steel kegs.



THE DUTCH BOY TRADE-MARK
Look for this trade-mark on paint products. It is a guarantee of excellence and reliability.

Lead Mixing Oil

Makes, with white-lead, a flat paint that seals, protects and beautifies all porous surfaces, whether plaster, wall-board, concrete, stucco, brick or stone, inside or outside. Gives a flat finish of unsurpassed durability and washability. Comes in 1 and 5-gal. containers.



Wall Primer

Dutch Boy wall primer seals and stops suction on all types of interior surfaces—plaster, wall board, insulating board, brick, concrete. Possesses exceptional hiding power and gives the proper foundation for finishing paint coats. Quart and gallon cans, 5-gal. kits, 30-gal. barrels.



Pure Linseed Oil

Raw, Boiled, "Standoil Type"

Only the finest of selected oil goes in every can of Dutch Boy linseed oil. And, as a safeguard of this excellence, the container is sealed at the factory. The unbroken seal is proof to the user that he is getting the best linseed oil that can be bought—clear, carefully filtered, well-settled. Comes in 1-gal. cans and 5-gal. drums.

Raw. Boiled. "Standoil type"—a pure linseed oil specially treated to produce a bodied oil.



Liquid Drier

Dutch Boy drier is an unusually strong drier of proved composition—properly balanced to bring about efficient drying of the paint—always uniform in strength. Half-pint, pint, quart and gallon cans.

Colors in Oil

Dutch Boy colors in oil can be depended upon for strength and purity of color tone. They are of proper consistency to mix easily into paint without thinning. Half-pints, quarts and gallons; also tubes.



Red-Lead for Metal

Red-Lead-in-Oil—Dutch Boy red-lead is highly oxidized pure red-lead ground in pure linseed oil. Its exceptionally high PbO₂ content and the fineness of its pigment particles insure excellent keeping and brushing qualities, good coverage and extreme durability.

Liquid Red-Lead—Dutch Boy liquid red-lead No. 1 is a pure red-lead paint, mixed on the basis of 33 lbs. dry red-lead to a gallon of vehicle. Experience has shown that it gives maximum durability and service under extreme exposure. Dutch Boy liquid red-lead is also available in black and two shades of brown.

Pure Red-Lead Paint Nos. 16 and 25—Both are 100% pure red-lead paints, the latter mixed on the basis of 25 lbs. of dry red-lead to a gallon of vehicle, the former, a lighter weight paint, on a 16 lbs. basis. The heavier paint is recommended for all classes of work and the No. 16 is excellent for protecting less costly metal structures.

Quick Drying Red-Lead Primer—This paint contains no pigment other than pure red-lead, but through the use of synthetic resins in the vehicle drying time has been reduced to from 4 to 6 hours. Excellent for all work where red-lead protection is vital and allowable drying time is short. Produces a tough, durable, flexible and exceptionally smooth coating.



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GENERAL PAINTING SPECIFICATIONS

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

Preparation of Surface

(1) **Woodwork**—New woodwork shall be cut smooth with sandpaper where required and dusted clean 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. After the priming coat on new woodwork is applied, all knots and sawy cracks shall receive one coat of shellac varnish brushed out thin and all dents, cracks and other defects shall be filled 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 and holes with 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, stucco, concrete and stone which are to be painted, shall be painted with NATIONAL LEAD COMPANY'S Dutch Boy White-Lead, Dutch Boy Lead Mixing Oil, Dutch Boy Wall Primer, Dutch Boy Linseed Oil, pure turpentine and Dutch Boy Liquid Drier mixed according to the formulas hereinafter designated for each kind of work. All metals shall be painted with NATIONAL LEAD COMPANY'S Dutch Boy Red-Lead according to formulas hereinafter given for each specific purpose.

(7) **Tinting Materials**—In producing tints and shades, Dutch Boy Colors-in-Oil 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 the volume of the tinting material.

(8) **Applying the Paint**—No exterior painting shall be done when rain or snow is falling, during fog or mist or 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 degrees F. and when all surfaces are dry. All exterior work shall be allowed to dry at least 4 days before the next coat is applied and at least 2 days shall be allowed between coats on interior work.

(9) **New Woodwork, Exterior**—Three coats of paint, mixed as follows shall be applied:

	Priming Coat	Second Coat	Third Coat
Dutch Boy All-Purpose Soft-Paste White-Lead	100 lbs.	100 lbs.	100 lbs.
Dutch Boy Linseed Oil	4 gals.	1½ gals.	3 gals.
Pure Turpentine	1½ gals.	1½ gals.	1 pt.
Dutch Boy Liquid Drier	1 pt.	1 pt.	1 pt.

*With heavy paste white-lead, add 1 qt. turpentine to third coat formula and increase by this quantity the turpentine in other two coats.
†When boiled oil is used, reduce drier to ½ pt.

(10) **Repainting Woodwork, Exterior**—Two coats of paint, mixed as follows, shall be applied:

	First Coat	Second Coat
Dutch Boy All-Purpose Soft-Paste White-Lead	100 lbs.	100 lbs.
Dutch Boy Linseed Oil	4 gals.	3 gals.
Pure Turpentine	1½ gals.	1½ gals.
Dutch Boy Liquid Drier	1 pt.	1 pt.

*With heavy paste white-lead, add 1 qt. turpentine to second coat formula and increase by this quantity the turpentine in first coat.
†When boiled oil is used, reduce drier to ½ pt.

(11) **Plaster, Interior**—Plaster never before painted shall first receive three coats mixed as follows:

	Priming Coat	Second Coat	Third Coat
Dutch Boy White-Lead (soft or heavy paste)	100 lbs.	100 lbs.	100 lbs.
Dutch Boy Lead Mixing Oil	4 to 5 gals.	3 to 4 gals.	3 to 4 gals.

*For semi-gloss finish reduce Lead Mixing Oil in third coat by ½ gal. and add ½ gal. spar varnish.

Dutch Boy Wall Primer may be used for priming coat, if desired.
In repainting plaster, only two coats are necessary and the priming coat may be omitted.

(12) **New Woodwork, Interior**—Woodwork inside never before painted shall first receive a priming coat as follows:

	Priming Coat
Dutch Boy All-Purpose Soft-Paste White-Lead	100 lbs.
Dutch Boy Linseed Oil	3 gals.
Pure Turpentine	1½ gals.
Dutch Boy Liquid Drier	1 pt.

*With heavy paste white-lead, increase to 2 gals.

This priming coat shall be followed by two coats mixed as follows:

	Second Coat	Third Coat	Third Coat
		Flat Finish	Eggshell Finish
Dutch Boy White-Lead (soft or heavy paste)	100 lbs.	100 lbs.	100 lbs.
Dutch Boy Lead Mixing Oil	3 gals.	3 gals.	3 gals.
Dutch Boy Wall Primer	1 pt.	1 pt.	1 pt.

(13) **Repainting Woodwork, Interior**—In repainting interior woodwork, only two coats are necessary. Use the same formulas as for New Woodwork inside, simply omitting the priming coat.

(14) **Brick, Stucco, Concrete, Stone**—Three coats of paint, mixed as follows, shall be applied to brick, stucco, concrete and stone never before painted.

	Priming Coat	Second Coat
Dutch Boy White-Lead (soft or heavy paste)	100 lbs.	100 lbs.
Dutch Boy Lead Mixing Oil	4 to 5 gals.	3 to 4 gals.

	Third Coat	Third Coat
	Flat Finish	Gloss Finish
Dutch Boy White-Lead (soft or heavy paste)	100 lbs.	100 lbs.
Dutch Boy Lead Mixing Oil	3 to 4 gals.	3 gals.
Dutch Boy Liquid Drier	1 pt.	1 pt.

*When boiled oil is used, reduce drier to ½ pt.

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

	First Coat	Second Coat
Dutch Boy Paste Red-Lead	100 lbs.	100 lbs.
Dutch Boy Linseed Oil	2½ gals.	2½ gals.
Dutch Boy Lampblack	1½ gals.	1½ gals.
Pure Turpentine	1½ pts.	1½ pts.
Dutch Boy Liquid Drier	1½ pts.	1½ pts.

	Third Coat	Third Coat
	(dark brown)	(black)
Dutch Boy Paste Red-Lead	100 lbs.	100 lbs.
Dutch Boy Linseed Oil	1½ gals.	1½ gals.
Dutch Boy Chinese or Prussian Blue	2 gals.	2 gals.
Dutch Boy Lampblack	2 gals.	2 gals.
Pure Turpentine	1 qt.	1 qt.
Dutch Boy Liquid Drier	1 qt.	1 qt.

*If genuine boiled linseed oil is available, use one-third boiled and two-thirds raw oil, omitting the drier.

†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) or Dutch Boy Liquid Red-Lead No. 3 (black) for third coat.

Formulas for Other Work

If the type of painting work to be done is not covered here, we shall be glad to furnish the proper formulas for it if you will address a request to NATIONAL LEAD COMPANY, 111 Broadway, New York, N. Y.

Booklets on Painting

A practical book, of unusual value to those interested in the subjects of paint and painting, is our "Handbook on Painting." This book gives formulas and directions for exterior and interior work of all kinds. It covers, in complete detail, the painting of wood, plaster, brick, stone, concrete, stucco and metal. We also publish a booklet, "Structural Metal Painting," which discusses the causes of corrosion and remedies for it, besides giving formulas and going into detail on the subject of painting structural metal of all kinds. For copies, simply address the branch office nearest you. They will be sent without obligation.