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SPECIFICATIONS

for the use of

WHITEHEAD

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SPECIFICATIONS for the use of WHITE-LEAD PAINT

We acknowledge the assistance of the
American Institute of Architects in
arranging the subject matter and form
of presentation of this publication.

National Lead Company

NEW YORK	CHICAGO	CLEVELAND
ST. LOUIS	ST. PAUL	ST. CINCINNATI
BUFFALO	INDIANAPOLIS	ST. CINCINNATI
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Instructions

Usual care has been taken in preparing these specifications to make them complete, absolutely reliable and in the most useful form possible.

The specifications are based on approved, modern painting practices, and are authoritative in every detail. They should be followed implicitly by the painting contractor, therefore, to obtain the best possible results.

It will be necessary, of course, in specifications to the painting contractor to include only those paragraphs of our specifications that cover the exact work to be done. For the user's convenience we have employed letters and numerals to designate the sections, their main divisions and the paragraphs of the latter.

If desired, detail of work to be done as outlined in Section C in the only part which need be written out in full. The details of materials and workmanship may then be covered by the following clause:

All painting work under this contract, except as herein after specified, shall be executed in strict conformity with the Specifications of National Lead Company, which Specifications are hereby declared and made part of this specification, with the same force and effect as if written herein in full.

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1. PREPARATION OF PLASTER SURFACES

(a) Before any plaster is applied, plaster surfaces, either new or old, shall be made clean and smooth.

(b) All cracks and holes shall be filled with plaster of paris or approved patching plaster. Large cracks, being filled, shall be spread up in dovetail shape that to the full and sealed with water. The filling plaster shall be spread up in dovetail shape that to the full and sealed with water.

(c) Walls that have been estimated shall be washed with all solutions in removed mortar, and where dry shall be undisturbed smooth.

(d) Where new plaster is to be applied, the surface shall be treated with a solution made by dissolving two pounds of one gallon of water. After the one solution has been applied, sufficient time shall be allowed for the plaster to dry before priming.

12. PREPARATION OF METAL SURFACES

All metal surfaces before priming shall be cleaned of grease, dirt, loose rust, loose scale and loose paint.

13. PREPARATION OF BRICK AND STONE SURFACES

(a) New brick work shall be primed with dry and at least two or three days of dry weather shall precede priming.

(b) If any surface has become loose or damaged, all such places shall be patched with mortar before priming.

14. PREPARATION OF STUCCO AND CONCRETE SURFACES

(a) After priming, wall surfaces shall be covered with putty.

(b) After priming, wall surfaces shall be covered with putty.

15. CLAIRING

(a) From completion of the building, the painting contractor shall remove all paint from the walls, and shall remove the equipment from the premises. He shall prevent the loss of finished work, and shall have the entire premises free from rubbish caused by him or his employees.

(b) During the time it is required to be located in the building, the contractor shall keep the premises clean and free from rubbish.

16. MATERIALS

(a) All materials for painting shall be delivered at the building in unbroken packages, bearing the manufacturer's brand and name, and shall be used without adulteration.

(b) The painting contractor is required to show specific names of brand, make, weight, color, and quantity of material to be used in the building.

(c) The painting contractor shall be responsible for the quality of the material used in the building.

(d) The painting contractor shall be responsible for the quality of the work done in the building.

(e) The painting contractor shall be responsible for the quality of the finish in the building.

(f) The painting contractor shall be responsible for the quality of the color in the building.

(g) The painting contractor shall be responsible for the quality of the texture in the building.

(h) The painting contractor shall be responsible for the quality of the sheen in the building.

(i) The painting contractor shall be responsible for the quality of the durability in the building.

(j) The painting contractor shall be responsible for the quality of the resistance in the building.

(k) The painting contractor shall be responsible for the quality of the protection in the building.

(l) The painting contractor shall be responsible for the quality of the maintenance in the building.

(m) The painting contractor shall be responsible for the quality of the repair in the building.

(n) The painting contractor shall be responsible for the quality of the replacement in the building.

(o) The painting contractor shall be responsible for the quality of the removal in the building.

(p) The painting contractor shall be responsible for the quality of the disposal in the building.

(q) The painting contractor shall be responsible for the quality of the storage in the building.

(r) The painting contractor shall be responsible for the quality of the handling in the building.

(s) The painting contractor shall be responsible for the quality of the transportation in the building.

(t) The painting contractor shall be responsible for the quality of the distribution in the building.

(u) The painting contractor shall be responsible for the quality of the sale in the building.

(v) The painting contractor shall be responsible for the quality of the purchase in the building.

(w) The painting contractor shall be responsible for the quality of the use in the building.

(x) The painting contractor shall be responsible for the quality of the disposal in the building.

(y) The painting contractor shall be responsible for the quality of the removal in the building.

(z) The painting contractor shall be responsible for the quality of the replacement in the building.

SECTION B
MAINTENANCE AND MIXING

SPECIFICATIONS for the use of WHITE LEAD PAINT

Section B

Use of the paint in the building, the painting contractor shall submit a list of the paint used, and shall keep the entire paint can for inspection by the owner and the architect. The paint shall be of the same brand and type as that used in the previous work.

NOTE: The paint shall be of the same brand and type as that used in the previous work.

(1)

1. SPECIFICATIONS for the use of WHITELEAD PAINT

Section 2

- (1) **Formula**
All materials shall be the best grade of their kinds, the product of an approved manufacturer and suitable for mixing with white-lead in equal parts.
- (2) **Other Formula**
All other materials shall be the best grade of their kinds and shall be composed of a pure zinc white in purest condition, using a formula of pure white-lead in equal parts.
- (3) **Other**
Paint shall be composed of pure white-lead and white-lead, mixed with pure linseed oil in proper proportion, and shall contain not less than one part white-lead, red-lead, or other lead-oxide, to every four parts of white-lead, and shall be of the American Society for Testing Materials.

NOTE: The paint shall be of the same brand and type as that used in the previous work.

2. TESTING

- (a) When the paint is to be tested, pure white-lead of Dutch Boy brand or its equal, shall be used.
- (b) The various colors, tints, or shades desired shall be in accordance with special directions in green formula.

NOTE: The paint shall be of the same brand and type as that used in the previous work.

3. GLAZING

Wherever glass is to be used it shall be Dutch Boy brand or its equal, and shall be of the same brand and type as that used in the previous work.

4. MIXING

All white-lead paint shall be mixed in the job in a manner to meet the proper proportions of the ingredients, and in conformity with formulae as given hereunder.

5. FORMULAE

(a) The following formulae are for white paint, and shall be composed of white-lead or other lead-oxide, and shall be of the same brand and type as that used in the previous work.

NOTE: The paint shall be of the same brand and type as that used in the previous work.

(1)

The Federal Specifications for White Lead Paint, as published by the Federal Bureau of Investigation, are hereby adopted as the standard for the use of white lead paint in the building, the painting contractor shall submit a list of the paint used, and shall keep the entire paint can for inspection by the owner and the architect. The paint shall be of the same brand and type as that used in the previous work.

(1)

1. SPECIFICATIONS for the use of WHITELEAD PAINT

Section 3

- (1) **Formula**
All materials shall be the best grade of their kinds, the product of an approved manufacturer and suitable for mixing with white-lead in equal parts.
- (2) **Other Formula**
All other materials shall be the best grade of their kinds and shall be composed of a pure zinc white in purest condition, using a formula of pure white-lead in equal parts.
- (3) **Other**
Paint shall be composed of pure white-lead and white-lead, mixed with pure linseed oil in proper proportion, and shall contain not less than one part white-lead, red-lead, or other lead-oxide, to every four parts of white-lead, and shall be of the American Society for Testing Materials.

NOTE: The paint shall be of the same brand and type as that used in the previous work.

2. TESTING

- (a) When the paint is to be tested, pure white-lead of Dutch Boy brand or its equal, shall be used.
- (b) The various colors, tints, or shades desired shall be in accordance with special directions in green formula.

NOTE: The paint shall be of the same brand and type as that used in the previous work.

3. GLAZING

Wherever glass is to be used it shall be Dutch Boy brand or its equal, and shall be of the same brand and type as that used in the previous work.

4. MIXING

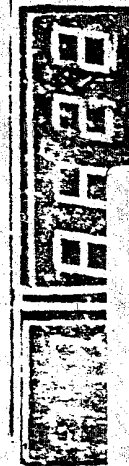
All white-lead paint shall be mixed in the job in a manner to meet the proper proportions of the ingredients, and in conformity with formulae as given hereunder.

5. FORMULAE

(a) The following formulae are for white paint, and shall be composed of white-lead or other lead-oxide, and shall be of the same brand and type as that used in the previous work.

NOTE: The paint shall be of the same brand and type as that used in the previous work.

(1)



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SPECIFICATIONS for the use of WHITE-LEAD PAINT

1

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2 gallons Turkish they will primer,
 { 40 }
 100 pounds Dutch they are Carter
 400 pure white-head,
 134 gallons pure turpentine,
 12 gallons lead turpentine,
 11 gallons lead turpentine.
 The above is enough to make 1000 gallons of paint.
 The above is enough to make 1000 gallons of paint.
 The above is enough to make 1000 gallons of paint.
 The above is enough to make 1000 gallons of paint.

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1. 100 parts by weight of white lead
2. 100 parts by weight of zinc white
3. 100 parts by weight of red lead
4. 100 parts by weight of black lead
5. 100 parts by weight of yellow lead
6. 100 parts by weight of brown lead
7. 100 parts by weight of green lead
8. 100 parts by weight of blue lead
9. 100 parts by weight of purple lead
10. 100 parts by weight of pink lead

(10)

1. 100 parts by weight of white lead
2. 100 parts by weight of zinc white
3. 100 parts by weight of red lead
4. 100 parts by weight of black lead
5. 100 parts by weight of yellow lead
6. 100 parts by weight of brown lead
7. 100 parts by weight of green lead
8. 100 parts by weight of blue lead
9. 100 parts by weight of purple lead
10. 100 parts by weight of pink lead

(10)

SPECIFICATIONS for the use of WHITE LEAD PAINT

Section 1

21. (a) Following Standard Plans—Continued

results in 13

Third Coat

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

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Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

Fourth Coat

Results in 13

SPECIFICATIONS for the use of WHITE LEAD PAINT

Section 2

21. (b) Following Standard Plans—Continued

results in 14

Third Coat

Fourth Coat

Results in 14

Fourth Coat

Results in 14

Fourth Coat

Results in 14

Fourth Coat

Results in 14

Fourth Coat

Results in 14

Fourth Coat

Results in 14

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Results in 14

Fourth Coat

Results in 14

(10)

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Section C

INSTRUCTIONS for the use of WHITELEAD PAINT

25. PAINTING BRICK, STUCCO, CONCRETE AND STONE

- (a) (Here list and describe surfaces to be painted, specifying batch to be used.)
- (b) All exterior brick, stucco, concrete and stone surfaces not previously painted shall be primed with formula No. 19; all interior brick, stucco, concrete and stone surfaces shall be primed with formula No. 19; all (floor finish) or (floor finish) for the finishing coat. (All brick, stucco, concrete and stone surfaces previously painted do not require the priming coat.)
- (c) All interior brick, stucco, concrete and stone surfaces not previously painted shall be primed with formula No. 19 and shall receive two additional coats, using formula No. 19 for the finishing coat. (All brick, stucco, concrete and stone surfaces previously painted do not require the priming coat.)
- (d) (If brick is to be laid off, it should be so specified here.)

26. PAINTING CONCRETE FLOORS

- (a) (Here list and describe the surfaces to be painted.)
- (b) All concrete floors not previously painted shall be primed with formula No. 25 and shall receive two additional coats, using formula No. 25 and No. 31, respectively.
- (c) (All concrete floors previously painted do not require the priming coat.)

(19)

Section E

INSTRUCTIONS for the use of WHITELEAD PAINT

27. PAINTING INTERIOR WOOD

- (a) (Here list and describe surfaces to be painted, specifying batch to be used.)
- (b) All woodwork shall receive two coats, using formula No. 19 for the first coat and formula No. 19 for the finishing coat. (If the wood is to be painted in a color other than white, the finishing coat shall be the color specified.)
- (c) (If the wood is to be painted in a color other than white, the finishing coat shall be the color specified.)

28. PAINTING WOOD FLOORS

- (a) (Here list and describe surfaces to be painted.)
- (b) All floors not previously painted shall be primed with formula No. 19 and shall receive two additional coats, using formula No. 19 and No. 71, respectively.
- (c) All floors previously painted shall be touched up in every place, using formula No. 19, and shall receive two coats, using formula No. 19 and No. 71, respectively.
- (d) Underlaid of all new porch floors and the exposed and ground edges of the boards shall receive one coat, using formula No. 19.

29. PAINTING INTERIOR PLASTER

- (a) (Here list and describe surfaces to be painted, specifying batch to be used.)
- (b) All walls not previously painted shall be primed with formula No. 19, and shall receive two additional coats, using formula No. 19 for the second coat and formula No. 19 for the finishing coat. (If the plaster is to be painted in a color other than white, the finishing coat shall be the color specified.)
- (c) All walls not previously painted shall be primed with formula No. 19, and shall receive two additional coats, using formula No. 19 for the second coat and formula No. 19 for the finishing coat. (If the plaster is to be painted in a color other than white, the finishing coat shall be the color specified.)
- (d) (If walls are to be painted in a color other than white, the finishing coat shall be the color specified.)

(19) (If the plaster is to be painted in a color other than white, the finishing coat shall be the color specified.)

30. PAINTING INTERIOR METAL

- (a) (Here list and describe surfaces to be painted, specifying batch to be used.)
- (b) All metal which is delivered unpainted shall receive three coats of paint, using formula No. 19 for the priming coat, formula No. 19 for the second coat and formula No. 19 for the finishing coat. (If the metal is to be painted in a color other than white, the finishing coat shall be the color specified.)
- (c) All metal which is delivered painted shall receive one coat, using formula No. 19 for the first coat and formula No. 19 for the finishing coat. (If the metal is to be painted in a color other than white, the finishing coat shall be the color specified.)
- (d) (If metal is to be painted in a color other than white, the finishing coat shall be the color specified.)

(19)

AMERICAN SOCIETY FOR TESTING MATERIALS
STANDARD SPECIFICATIONS

BASIC CARBONATE WHITE LEAD

U.S.T.M. Originator: D 61-17

These specifications are issued under the first designation I 11; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

Issued as Tentative, 1931; Adopted in Amended Form, 1934; Revised, 1935, 1937.

3. These specifications cover what is commonly known as basic carbonates which had been used as a pigment and in putty, purchased either as dry pigment, paste in oil, semi-paste in oil or semi-paste with turpentine.

Manufacturers

3. (a) *Dry Pigment*.—The pigment shall be the product made from metallic lead and shall have a composition corresponding approximately to the formula $2PbCO_3 \cdot (CdS)$. It shall be thoroughly washed after corrodion, shall be free from impurities and adulterations, and shall meet the requirements given in Section 3.

(b) *Paste*.—The paste shall be made by thoroughly grinding the specified pigment with linseed oil, to a paste consistency.

(c) *Seal Paste*.—The seal paste shall be made by thoroughly grinding the specified pigment with flaxseed oil to a semi-paste consistency.

Properties and Taste

3. (c) The rate and who strength, when specified, shall be equal to that of a sample mutually agreed upon by buyer and seller.

(b) *Dry Pigment*.—The pigment shall conform to the following requirements:

	Maximum	Minimum
and carbonate, per cent.....	75.0	65.0
acid impurities, including moisture, per cent.....	2.0	
foreign particles retained on a No. 315 sieve, per cent.....	1.0	

[illegible]

[22]

SUPPLEMENT

A. S. T. M. AND GOVERNMENT SPECIFICATIONS

On the following pages will be found specifications of the American Society for Testing Materials and of the United States Government, on the points mentioned hereunder.

White Lead	CONSTITUTION	Page
For Linseed Oil	A. S. T. M. Standard	12, 13
For Linseed Oil	A. S. T. M. Standard	14
United Linseed Oil	A. S. T. M. Standard	15
Preparation	A. S. T. M. Test-leaf	16
Stable	Chemical Standard	17
Very	A. S. T. M. Standard	16, 17

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AMERICAN SOCIETY FOR TESTING MATERIALS STANDARD SPECIFICATION

GLAZIER'S PUTTY

A. S. T. M. Designation D377-30*

These specifications are issued under the first designation D377, the final number indicating the year of original adoption as standard or, in the case of revision, the year of last revision.

Issued, 1930, adopted as standard, 1933.

These specifications cover two classes of putty for glazing and similar purposes, as follows:

Class A—Whiting putty.

Class B—White-lead whitening putty.

The putty shall be furnished in natural color, or tinted or colored as specified by the purchaser.

MANUFACTURE

6. The putty shall be made by thoroughly grinding or "sizing" the specified dry pigment with pure raw linseed oil as a dough-like paste of proper consistency.

PROPERTIES AND TESTS

3- (4) The dry pigment shall conform to the following requirements:

	Whiting Putty	White-Lead Putty
Calcium Carbonate, minimum, per cent.....	95	95
White-lead, minimum, per cent.....	5	5
Total calcium carbonate and white-lead, minimum, per cent.....	100	100
Testing pigment plus impurities, maximum, per cent.....	5	5

(5) Whiting.—The whiting used in both classes of putty shall be fine from mill, shall be precisely neutral and shall have a maximum of 5 per cent of insoluble matter in the manufacture of putty of the required physical properties.

*Subject to any revision if and when made.

[10]

UNITED STATES GOVERNMENT MASTER SPECIFICATION*

DRIERS: PAINT, LIQUID

A. Applicable Federal Specifications

A-1. There are no other Federal specifications applicable to this specification.

A-2. Type

B-1. Liquid paint drier shall be of two types, as follows. (The type or types described shall be named in the invitation for bids.)

Type I.—For general use, non-toxic.

Type II.—For special lead-free paint, containing no lead.

C. Material and Manufacture

C-1. The manufacturer is given wide latitude in the selection of raw materials and process of manufacture so that he may produce drier of the highest quality.

D. General Requirements

D-1. See "General Requirements."

E. Detail Requirements

E-1. Appearance.—The drier shall be a milky liquid free from sediment and suspended matter and shall show no clumping or precipitation.

E-2. Color.—The drier shall be of such a color that when mixed with pure raw linseed oil in the proportion of 1 volume of drier to 4 volumes of oil the resulting solution shall be of a uniform color.

E-3. Flash point.—(United States.) Not less than 100° F. (38° C.).

E-4. Volatile matter.—Not more than 30 per cent by weight.

E-5. Falsifiable matter.—It shall be composed of inorganic, natural origin, or a mixture of these.

E-6.

F-1. The drier shall yield on ash which shall show on analysis not less than 90 per cent of lead calculated as metallic lead.

F-2. When lead-free drier is specifically called for in the contract the ash of the drier shall contain no lead.

F-3. Drier not dried out.—It shall not solidify when stored in the proper container for a period of 1 year.

F-4. Drying property.—The drier shall dry a film of pure raw linseed oil, when stored on glass, shall dry properly in not more than 1 hour.

G. Methods of Testing

For further details reference should be made to the complete specifications which may be obtained from the Government Printing Office, Washington, D. C.

*Form 10 (Rev. 1)

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.....	per cent.	95
.....	per cent.	10
.....	per cent.	97
.....	per cent.	5

4. Wharf.—The wharf used in both classes of patty shall be free from any rubbish, and shall have a structure and provided characteristics adapted to the manufacture of patty of the required physical properties.

STAYING PROPERLY.—The above answers (along with lined oil, when forced on glass, shed dry properly in not more than 2 hours.

A. Methods of Testing

For further details reference should be made to the complete specifications which may be obtained from the Government Printing Office, Washington, D. C.

THEORY OF THE

14. *Warrant*.—The warrant shall be given, made and returned.
15. *Transit Agency*.—Thinking or delivery agreement, if used, shall be given and be in written quantity to ensure the specified use or delivery.
16. *The liquid shall contain custody of your own interest*.
17. *18. The liquid party shall continue to the following requirements*

[illegible]

(b) The Standard party, when voting in the hands, shall have good plain quality white envelopes to be used. It shall not readily and accurately reduce a ballot with the thumb nail or with the finger nail. When being marked in pencil it shall hold in shape until set.

(4) The party, as returned, shall not be ruled or hardened in the sentence.

[illegible]

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