

WHITE LEAD PROMOTION PROGRAM**LEAD INDUSTRIES ASSOCIATION**

Graybar Building, 420 Lexington Avenue
New York, N. Y.

January 24, 1941

BULLETIN NO. 34

Navy Dept. Housing
Defense Painting

To Members Supporting the White Lead Promotion Program:

We are attaching herewith a copy of the Navy Department's Standard Specification for painting its defense housing projects provided us by Lt. Commander I. A. Bickelhaupt, who is in charge of all these projects for the Department.

Commander Bickelhaupt informs us that all types of siding materials are being used. Consequently, some of the projects may require considerable exterior paint and others only paint for trim.

It is our understanding that the final selection of the paint is up to the officer in charge of each project. Since the specification provides both for the exterior use of pure white lead paint and paint meeting Federal Specification TT-F-101a, it is quite possible that many of the officers in charge can be prevailed upon to use pure white lead if our members get in touch with them.

In this connection please note that the Navy Department's specification permits either Type A or Type B paint under Federal Specification TT-F-101a. Type B is lead free and the Navy Dept. specification does not state (as does the Federal Specification) that Type B is for special outside use where sulphide fumes may darken paints containing lead, an extremely rare occurrence. Therefore, if any member finds the officer in charge of any project considering Type B paint where sulphide fumes are not a factor, this omission might be brought to his attention. It should persuade him to use either straight white lead or Type A paint which contains 85 per cent lead in accordance with the Federal specification, which is probably the intention of the Navy specification.

For your information, we are attaching a list of Navy housing projects on which contracts have been awarded up to January 2, 1941, together with the general contractor's name. All of these contracts are awarded on a cost-plus-fixed-fee basis. The contractor or painting contractor, if one has been appointed, can probably help the officer in charge in the selection of white lead.

Very truly yours,

H. C. Gorman
Secretary.



COPY

(Spec. 10259)

P A I N T I N G

This specification is intended to cover the painting for the interior wall board and ceilings, all interior woodwork such as base board, door jambs and trim, doors, cove mouldings at wall and ceiling intersections, and at the exterior for wood siding, door frames and doors, steel sash, wood frames and sash shutters, cornices and rake mouldings, etc.

It will be the responsibility of the painter to see that all woodwork is all sanded, clean and dry, and prior to applying any paint to sand down as necessary to give a perfectly smooth surface which in turn will assure a smooth, even finish.

Under the caption of painting the type and method of painting any and all cold formed Structural Steel will not be considered as this is part and parcel of the Steel Fabricator's work and will be done at the point of steel fabrication.

(a) All paint shall be worked thoroughly into all joints, crevices and open spaces. Colors shall be selected and approved by the Officer-in-Charge. There shall be a perceptible difference in the shades of each successive coat of paint.

All exterior wood work shall be of the 3 coat type with all knots shellacked and nail holes well puttied. (If nails aren't set, the painter to advise the contractor prior to any paint being applied.)

Steel sash to receive 1 coat over shop coat.

All exterior work to be in accordance to the following Federal specifications:

TT-P-101; Titanium Paints - Outside; Type A, weight per gallon min. 17 lbs.; pigment min. 60% by weight, consisting of titanium dioxide min. 7% zinc oxide max. 21%, white lead, min. 88% (equiv. to basic carbonate), extenders max. 10%, water soluble matter, max. 0.8%; vehicle, max. 32% (linseed oil min. 85%), water, max. 1.0%
Type B, weight per gallon min. 18 lbs.; pigment min. 85% consisting of titanium dioxide min. 18%, zinc oxide 30 to 35%, white lead none, extenders max. 85%, water soluble matter max. 0.8%; vehicle max. 42% (linseed oil min. 85%), water max. 1.0%, lead in any form none. Apparent daylight reflectance relative to magnesium oxide min. 75% for both types.

TT-P-156; White Lead Paint. Pigment, white lead Fed. Spec. TT-P-261a) min. 71% containing not over 2% tinting pigments. Liquid (containing not less than 8% linseed oil) max. 22%; Water max. 0.8%; Coarse particles and skins max. 2%. Weight per gallon min. 19.5 lbs. Drying time, max. 18 hrs.

Colors and tints shall be obtained by the addition of the following materials, the quantities indicated being added to each one hundred pounds of semi-paste white lead for the "finish" coat and not less than 60 per cent thereof for the "intermediate" coat.

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PAINTING
 (Continued)

(Spec. 10289)

COLORS

Dark Brown	1-1/2 gallons of Burnt Umber 1/4 gallons of Indian Red
Medium Brown	3/4 gallons of Burnt Umber 1/4 gallons of Venetian Red
Light Green	1/4 gallons of Chromium-Oxide green
Medium Green	1 gallon of Chromium-Oxide green
Light Buff	1/16 pint of Medium Chrome Yellow.
Medium Buff	1/8 pint of Raw Sienna
Drab	1 pint of Raw Umber
Medium Gray	1/4 pint of Lampblack
Light Gray	1/8 pint of Lampblack

TINTS - Very small quantities added on a trial and error basis, of "C.P." colors such as chromium oxide green, chrome yellow, Prussian Blue and ultramarine.

All interior wall finishes to be in accordance to this specification and to be a two coat job.

All interior fibre board a Prime Finish.

All interior wood work to receive 3 coat job, (last coat to be enamel) and if base and door joints are of steel, they will be delivered to site primed and receive additionally 2 coats of lead and oil paint, color to be selected by P.W.O. Paint for interior wood work to be in accordance with Federal Spec. TT-P-51a and glass enamel TT-E-506a.

A. General Purpose:

This paint is intended for use as a finish coat for properly primed interior surfaces.

COMPOSITION OF WHITE ENAMEL

1. Pigment 81.6 ± 2%

a - Titanium Calcium Pigment	64.0% Min.
b - Titanium Oxide	22.0% Min.
c - Zinc Oxide - French Process	4.0% Min.
d - Inert	7.7% Max.

a- The Titanium Calcium pigment shall conform to A.S.T.M. specification D-383-36.

b- The Titanium Oxide shall conform to A.S.T.M. Specification D-384-36.

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PAINTING
(Continued)

(Spec. 10259)

c- The Zinc Oxide shall be French Process Zinc Oxide conforming to A.S.T.M. specification D-79-34.

d- The Inert shall consist of calcicous material.

2. Vehicle 48.4 $\pm$ 2%

a- Synthetic Resin 43.7 $\pm$ 2.5%

b & c- Drier and Thinner 54.3 $\pm$ 2.5%

a- The Synthetic resin shall be of the glyceryl phthalate type.

1. It shall show not less than 42% glyceryl phthalate quantitative on analysis.

2. It shall be free from resin and resin derivatives.

3. Its acid number shall be a maximum of 7.

b- The drier shall be such as to obtain the specified drying properties with a high degree of package stability.

c- The volatile thinner shall consist of petroleum hydrocarbons free from alcohol and ester solvents.

COMPOSITION OF PASTEL SHADES

The pastel shades of the enamel shall consist of the white enamel whose composition is specified above, tinted with high quality pigments ground in a glyceryl phthalate type vehicle, which shall show a minimum of 32% glyceryl phthalate by analysis on the non-volatile portion.

PHYSICAL PROPERTIES:

1. Weight per gallon shall be a minimum of 11.84.
2. Viscosity of package shall be not less than 2 poises at 25°C. 24 hours after manufacture.
3. Coarse particles and skins retained on a 325 mesh screen shall be not more than .6% by weight.
4. Odor shall be normal for the composition permitted by the specification.
5. The Flash Point shall be not lower than 31.1°C. (88°F.).
6. Working properties shall be satisfactory for brushing.
7. Drying time - a flow out film shall set to touch in a maximum of three hours and be ready for recoating in 24 hours.
8. Recoating after a 24 hour or longer drying period shall produce no film irregularity.
9. The gloss shall be an eggshell gloss and shall match the gloss of a mutually agreed upon standard.
10. The colors shall correspond to mutually agreed upon standards.

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PAINTING
(Continued)

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Cement-water paint shall be an approved hydraulic-base paint delivered in powder form ready for use with the addition of water only. The powder shall consist of not less than 75 per cent white portland cement, not more than 15 per cent lime, 4 per cent hygroscopic salt, or 0.5 per cent ammonium stearate, and color pigments which are lime, sun and water-proof and which are ground with the cement at the factory. A small percentage of titanium oxide may be included. It shall contain no glue, casein, or adulterants, or any materials affected by the chemical action of lime, alkali, or water. The paint shall be suitable for brush application and when applied, shall flow evenly, cover solidly, and bond well with the surface, and shall dry to a smooth, hard, flat, damp-proof finish that will not powder, chip, or rub off and that can be washed repeatedly without damage to the film.

On projects where Keller Coated Metal roofs are used, painter to give one additional coat of roof lacquer of color as selected by P.W.O.

Navy DepartmentNEGOTIATED CONTRACTS

Revised Jan. 2, 1941

Contracts awarded by the Bureau of
Yards and Docks, Navy Department,
on a cost-plus-fixed-fee basis.

LOCATION	PROJECT	AWARD DATE	EST. CONS. COST	CONTRACTOR AND ADDRESS	OFFICER IN CHARGE AND ADDRESS
<u>CALIFORNIA</u>					
Long Beach	Housing Units	10/4/40	\$1,263,000	McNeil Const. Co. 8460 Avalon Blvd. Los Angeles, Cal.	Contract Noy-4385 11th Naval Dist. San Diego, Cal.
Lane Island	Navy Yard Housing	8/9/40 (approval Date)	\$2,400,000 800 units		
Lane Island	Navy Yard Housing	10/29/40	\$834,000	Cahill Bros. & Ben C. Gerwick, Inc. 206 Sansome St. San Francisco, Cal.	Contract Noy-4442 Navy Yard, Lane Island, Cal.
San Diego	Naval Operations Base, Marine Corps Barracks, Temporary Housing	7/4/40	\$1,630,000	Los Angeles Con- tracting Co. and Mr. C. L. Kern, 4416 E. Pico Blvd. Los Angeles, Cal.	Contract Noy-4187 11th Naval Dist. San Diego, Cal.
San Diego	San Diego area Housing facilities	10/4/40	\$3,800,000	Wm. Simpson Const. Co., 616 1/2 6th St. Los Angeles, Cal.	Contract Noy-4382 11th Naval Dist. San Diego, Cal.
<u>CONNECTICUT</u>					
New London	Submarine base Housing	11/8/40	\$277,000	Madame, May & Carey Co. 15 Lewis St. Hartford, Conn.	Contract Noy-4473 Submarine Base, New London, Conn.
<u>DISTRICT OF COLUMBIA</u>					
Washington	Navy Yard Housing	11/14/40	\$1,900,000	Wm. P. Lipscomb Co. 836 Woodward Bldg. Washington, D.C.	Contract Noy-4489 Navy Yard, Washington, D.C.
<u>FLORIDA</u>					
Jacksonville	Naval Air Station, Housing	11/14/40	\$858,000	Hillyer & Levan, 111 E. Ashley St. Jacksonville, Fla.	Contract Noy-4490 Naval Air Station, Jacksonville, Fla.
Key West	Naval Station, Housing facilities	10/24/40	100,700	Southeastern Const. Co. Security Bldg. Miami, Fla.	Contract Noy-4488 Naval Station, Key West, Fla.

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LOCATION	PROJECT	AWARD DATE	EST. CONG. COST	CONTRACTOR AND ADDRESS	OFFICER IN CHARGE AND ADDRESS
<u>FLORIDA</u> (cont'd)					
Miami	Naval Air Station Housing	11/23/40	\$555,000	Mackie Co. 2818 Coral Way, Miami, Fla.	Contract NOy-4500 Naval Air Station Jacksonville, Fla.
<u>ILLINOIS</u>					
Great Lakes	Naval Training Station Housing	10/28/40	\$574,000	Leonard Const. Co. 37 S. Wabash Ave. Chicago, Ill.	Contract NOy-4432 U.S. Naval Training Station, Great Lakes, Ill.
<u>MARYLAND</u>					
Indian Head	Naval Powder Factory. Low cost housing	10/25/40	\$1,945,400	Hardwood-Rebal Const. Co. Washington, D.C. (1520 K St., N.W.)	Contract NOy-4428 Navy Yard, Washington, D.C.
<u>MASSACHUSETTS</u>					
Squantum	Naval Reserve Aviation Base. Housing facilities	11/24/40	\$178,000	Walter L. Ritchie 7 Davis Square West Somerville, Mass.	Contract NOy-4511 1st Naval Dist. U.S. Navy Yard, Boston, Mass.
<u>MISSISSIPPI</u>					
Pascagoula	Housing Facilities	11/25/40	\$2,000,000	W. J. McGee & Son and the Green Lumber Co. Laurel, Miss.	Contract NOy-4512 U.S. Naval Air Station, Pensacola, Florida
<u>NEW HAMPSHIRE</u>					
Portsmouth Navy Yard	Housing	8/9/40 (approval Date)	\$1,600,000 400 units		
<u>RHODE ISLAND</u>					
Newport	Vicinity of Newport. Housing	10/29/40	\$1,688,000	Gilbane Bldg. Co. Belt-Fairchild Co. 90 Calverley St. Providence, R.I.	Contract NOy-4438 U.S. Naval Training Station, Newport, R.I.
<u>SOUTH CAROLINA</u>					
Charleston Navy Yard	Housing Facilities	10/24/40	\$528,000	Southeastern Const. Co. Charlotte, N.C.	Contract NOy-4423 U.S. Navy Yard, Charleston, S.C.
Parris Island	Marine Barracks. Aviation facilities, temporary housing, etc.	7/31/40	\$3,304,780	Chas. F. Angle, Inc. P.O. Box 1749 Greensboro, N.C.	Contract NOy-4281 Marine Barracks, Parris Island, S.C.

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NEGOTIATED CONTRACTS
Revised June 2, 1941

<u>LOCATION</u>	<u>PROJECT</u>	<u>AWARD DATE</u>	<u>EST. COS.</u> <u>COST</u>	<u>CONTRACTOR</u> <u>AND ADDRESS</u>	<u>OFFICER IN CHARGE</u> <u>AND ADDRESS</u>
<u>TEXAS</u>					
Corpus Christi	Housing facilities	11/20/40	\$1,175,000	Thos. Rife & Sons 1107 Girard St. Houston, Texas	Contract NOy-4808 U.S. Naval Air Station, P.O. Box 88 Corpus Christi, Tex.
Orange	Housing facilities	11/20/40	\$1,430,000	Brown-Lane Co. & Central Contr. Co. 606 Constr. Bldg. Dallas, Texas	Contract NOy-4805 a/e Supervisor of Ship Building, Consolidated Steel Corp., Ltd. Orange, Texas
<u>VIRGINIA</u>					
Alexandria	Housing facilities	11/12/40	\$830,000 (300 units)	Geo. Hyman Const. Co. 7th & T St., N.E. Washington, D.C.	Contract NOy-4828 U.S. Navy Yard Washington, D.C.
Norfolk	Housing Units	10/7/40	\$2,284,000	Byne Organization Dallas, Texas	Contract NOy-4384 Naval Operating Base, Norfolk, Va.
Portsmouth	St. Julienne Creek. Housing facilities.	10/22/40	\$713,000	Allan J. Saville Electric Bldg. Richmond, Va.	Contract NOy-4418 Navy Yard Norfolk, Va.
Yorktown and Newport News	Naval Mine Depot Housing, etc.	10/4/40	\$4,026,280	Wise Contr. Co. 122 N. 8th St. Richmond, Va. Va. Eng. Co. Helson Bldg. Newport News, Va.	Contract NOy-4378 Naval Operations Base, Norfolk, Va.
<u>WEST VIRGINIA</u>					
South Charleston	Naval Ordnance Plant Housing.	11/18/40	\$1,827,000	J.A.J. Const. Co. 270-41st St. Brooklyn, N.Y. Engstrom & Lynn 1117 Chapline St. Wheeling, W. Va.	Contract NOy-4488 Naval Ordnance Plant South Charleston West, Va.
<u>CANAL ZONE</u>					
Coconut Point and Balboa	Housing facilities	12/30/40	\$4,224,000	Leonard Const. Co. 27 South Wabash Ave. Chicago, Ill.	Contract NOy-4889 18th Naval Dist. Balboa, Canal Zone