



TECHNICAL SERVICE LETTER

Federal Specifications for White Lead Paints and Mixed Pigment Paints.

Formerly, there were separate Federal Specifications for straight white lead paint and several mixed pigment paints. These have been combined into one specification:-Federal Specification for Paint; Oil, Exterior, Ready-Mixed, Light Tints and White - TT-P-40, *Amendment 2, Feb. 2, 1945 which covers the following paints:

- Type I - Mixed Pigment Base
 - Class A - White, general-purpose
 - Class B - White, special fume-proof
 - Class C - Tint-base
- Type II - White Lead Base (White and Tinted)

Dutch Boy Pure White Lead Paint - Outside White, meets the requirements for the Type II paint.

The requirements for composition and properties are given in the table.

* This specification supersedes Federal Specifications TT-P-36a, TT-P-101a, TT-P-156a, and also Emergency Alternates E-TT-P-36a, E-TT-P-101a and E-TT-P-156a.

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Ingredients and Properties of

Paints to Meet Requirements of Federal Specification TT-P-40, Amendment 2.

	Type I Mixed Pigment Paint			Type II White Lead Paint	
	Class A (White)	Class B (Fume-proof)	Class C (Tint-base)	White	Tinted
Pigment, per cent, minimum	66.0	58.0	66.0	71.0	
Titanium Dioxide, per cent, minimum	14.0 ^a	15.0 ^a	14.0 ^b	None	
Zinc Oxide, per cent	25.0-30.0	30.0-35.0	25.0-30.0	None	
White Lead, per cent, minimum	41.0 ^c	None	41.0 ^c	99.0 ^d	
Silica or silicates, per cent, maximum	15.0	55.0	15.0 ^e	None ^f	
Water soluble matter, per cent, maximum	0.8	0.8	0.8	----	
Vehicle g, per cent, maximum	34.0	42.0 ^h	34.0	29.0	
Linseed Oil, per cent, minimum and maximum	65-70	65-70	65-70	65-70	
Thinner and Drier, per cent, minimum and maximum	30-35	30-35	30-35	30-35	
Water, per cent, maximum	1.0	1.0	1.0	0.5	
Coarse Particles, No. 325 sieve, per cent maximum	2.0	2.0	2.0	2.0	
Pounds per gallon, minimum	15 3/4	12 3/4	16	19	
Reflectance, daylight, per cent minimum	75	75	----	75	
Drying Time, hours, within	18	18	----	18	
Consistency - grams at 100 rev. per 30 seconds ¹	175-375	175-375	175-375	175-375	
Krebs units	77-102	77-102	----	77-102	

Notes

- Regular chalking anatase type, not under 97% TiO₂
- Non-chalking rutile type, not under 97% TiO₂
- White Lead and zinc oxide may be any mixture of basic carbonate or basic sulfate white lead, leaded zinc or zinc oxide
- Basic carbonate white lead - minimum 95% for tinted paint of Type II
- Including tinting colors
- Five per cent tinting pigments allowed in tinted paint of Type II
- Vehicle, separated by centrifuging, shall conform to Fed. Spec. TT-O-371, except that, from the appearance, color and viscosity shall be waived.
- Modified Stormer Viscosimeter

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The general requirements for these paints are as usual: the paint must be well ground, free from setting or caking in the container, free from tendency to thicken in storage, and capable of being easily broken up with a paddle to uniform paint of good brushing consistency. The paint must have good flowing and brushing properties, and must dry to uniform, smooth, level appearance without streaking, running, or sagging. The dry film must have a low oil gloss appearance.

A white lead paint equivalent to Type II may be made according to the following formula:

100 lbs. Dutch Boy Soft Paste White Lead
3-1/4 gals. Dutch Boy Linseed Replacement Oil

This formula yields about 6-1/2 gallons.

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