
I. GENERAL

The work shall include all labor, materials, equipment, plant and other facilities and the satisfactory performance of all works necessary to complete all field painting and as specified herein. All paints and coatings shall be applied by painting subcontractors and workmen approved by the Engineer.

II. SCOPE

The following surfaces to be painted except where otherwise specified or shown:

- a. Above ground piping and other metal surfaces.
- b. All exposed concrete.
- c. All structural and miscellaneous metal.
- d. All equipment furnished without factory finished surfaces.
- e. All exposed steel mullions, tubular frames, door frames, steel sash, and metal windows.
- f. All sheet metal and ferrous metal trim.
- g. Interior and exterior surfaces of the building including all concrete block masonry.

The following surfaces are not to be painted:

- a. Ferrous metal having approved plating or factory paint finishes.
- b. Non-ferrous metals, unless otherwise noted or indicated; galvanized metal shall not be considered a non-ferrous metal.
- c. Equipment with factory finished surfaces unless otherwise noted.

No concrete, wood, metal or any other surfaces requiring protection shall be left unpainted even though not specifically defined herein.

III. RIGHT OF REJECTION

Exterior painting or interior finishing shall be done under conditions which shall not jeopardize the appearance or quality of the painting or finishing in any way. The Engineer shall have the right to reject all material or work that is unsatisfactory, and require the replacement of either or both at the expense of the Contractor.

IV. PROTECTION OF THE WORK

The Contractor shall endeavor to protect the work of others during the time painting work is in progress. The Contractor shall be responsible for any and all damage to any other work in the course of his painting job.

Protective coverings shall be used to protect floors, fixtures, and equipment

while painting, care shall be exercised to prevent paint being spattered onto surfaces which are not to be painted.

V. WORKMANSHIP

All painting work shall be first class and in accordance with the best standard practices of the trade.

The Contractor shall examine carefully all surfaces to be painted and before beginning any of his work shall make sure that the work of other trades has been installed in a workman like condition ready to receive paint. Metal surfaces shall be clean, dry and free from mill scale, rust, grease, oil or any other substance which could affect the quality of the painting.

Paint shall be applied at the proper consistency and each coat shall be brushed evenly free of brush marks, sags, and runs. Care shall be exercised to avoid lapping of paint on glass or hardwares. Paint shall be sharply applied to required lines. Finished paint surfaces shall be free from defects or blemishes. Surfaces from which such paint cannot be removed satisfactorily shall be painted or repainted, as required to produce a finish satisfactory to the Engineer.

Succeeding paint coatings shall be applied only when the previous coat is hard and dry.

All painting materials shall be used in strict accordance with manufacturers directions, spread or flowed on smoothly with proper film thickness and without runs, sags, skips or other defects.

VI. STORAGE OF MATERIALS

All painting materials and equipment not for immediate use shall be stored in a room approved by the Engineer for that purpose. The receiving, opening and mixing of all paint shall be removed from the premises at the end of each day's work, or stored in metal containers with metal covers.

VII. PREPARATION OF PAINT

Paint containers shall be delivered to the job site in manufacturer's unopened containers and shall be opened only when required for use. Paint shall be mixed only in the designated room or space in the presence of the Engineer or his representative. Paint shall be thoroughly stirred or agitated to uniformly smooth consistency suitable for proper application. Unless otherwise specified or approved, no materials shall be reduced, changed, or used except in accordance with manufacturer's label or tag on container. In all cases, paint shall be prepared and handled in a manner to prevent deterioration and inclusion of foreign matter.

VIII. CLEAN-UP

Upon completion of his work, the Contractor shall remove all surplus materials. All paint spills shall be removed and the entire premises shall be cleaned of all rubbish, and debris, caused by his work. He shall present the work clean and free from blemishes so that it is acceptable in every way. All glass, fixtures and doors shall be cleaned of paint spots and polished, and the job made for occupancy by the owner.

IX. MATERIALS

- a. Materials – The Contractor may substitute other paint materials for those specified in Section 15.12 provided he first receives written approval from the Engineer stating that said proposed substituted materials are equal to that specified and are approved for use. The painting material shall be delivered to job site in original containers properly labeled without evidence of tampering, substitution of contents, or of deterioration. A complete list of materials proposed for use shall be submitted for the Engineer's approval.
- b. Colors and Samples – All finish colors shall be as selected by the Owner. In multicoat work using color pigmented paints, each coat shall have sufficient variation of color to easily distinguish it from preceding coat.

Using specified or approved materials, 3 sample panels of each finish, including all coats thereof shall be prepared and submitted for the Owner's approval. Completion work shall match approved colors and samples.

X. PREPARATION OF SURFACES

- a. General – Except as otherwise specified, surfaces to be painted shall be clean, smooth and dry. The Contractor shall report to the Engineer in writing any surface which cannot be properly prepared for painting. If work is commenced before defects have been reported and corrected, any resulting unsatisfactory finish shall be rectified at no cost to the PPA.
- b. Concrete and Masonry – all concrete and masonry surfaces shall be cured thirty days prior to painting. Dirt, dust, oil, grease, efflorescences, loose cement, chalk and other deleterious matter shall be removed and surface roughened when necessary to insure good paint adhesion. the method of surface preparation shall be left to the discretion of the contractor, but results obtained shall be satisfactory to the Engineer. Before application of resin emulsion paint, surfaces shall be prepared in accordance with manufacturer's directions. Before

application of oil base or latex paints, surfaces shall be tested for presence of alkali; if alkali is present, neutralized as recommended by the manufacturer of the paint materials to be applied.

- c. Plaster – Dirt, dust, loose plaster and other deleterious matter which would prevent good paint adhesion shall be removed. All holes, cracks and depression shall be neatly filled with patching plaster, missed and applied to match existing plaster. Patches shall be sanded flush and smooth and properly sealed before applying prime coat. After priming surfaces, suction spots shall be touched up with additional prime coat material until surfaces evidence a uniform coating. Enamel undercoats on smooth plaster shall be sandpapered by hand (with No. 00 sandpaper) and dusted clean before applying succeeding coat.
- d. Metal – Dirt, weld, splatter, rust, scale and other contaminants shall be removed by scrapping, wire brushing and sanding or sandblasting as required. Oil and grease shall be removed with mineral spirits or appropriate solvent. Before painting ferrous metal surfaces, including

galvanized ferrous metal, surfaces shall be pretreated with approved phosphoric acid etching cleaner in accordance with manufacturer's

directions to produce a chemically clean surface. Unless already performed in accordance with specifications of other sections, abrasions and bare spots in shop prime coatings shall be touched up with metal primer matching the shop coatings. Enamel undercoats shall be sandpapered by hand (with No. 00 sandpaper) and dusted clean before applying succeeding coat.

- e. Woodwork – Unless already properly sanded, woodwork shall be sandpapered smooth by hand. Before priming surfaces, knots, pitch pockets and sap streaks shall be thoroughly cleaned of residue and touched up with shellac varnish coating. After priming surface, nail holes, cracks and depressions shall be neatly filled with putty or other approved filler, colored to match required finish. Enamel undercoats shall be sanded by hand (with No. 00 sandpaper) and dusted clean before applying succeeding coat.

XI. APPLICATION OF PAINT

- a. General – All painting and finishing shall be performed by skilled craftsmen. Each coat of paint shall be applied with proper consistency, evenly, free of laps, sags and runs and cut sharply to required lines. Paint shall be applied only under dry and dust free conditions that will insure properly finished surfaces, free of defects and blemishes unless otherwise directed by the Engineer. Paint shall not be applied when temperature is likely to be above 90°F. Sufficient time shall be allowed between application of coats to insure proper drying of the preceding coat. All primer and intermediate coats shall be unscarred and completely integral at

time of application of each succeeding coat. The Engineer shall be notified when each coat has been applied and is ready for inspection; until coat is inspected and approved by the Engineer, no succeeding coats shall be applied. Whenever two coats of a dark colored paint are specified the first coat shall contain sufficient powdered aluminum to act as an indicator for proper coverage when applying the second coat.

- b. Method of Application – Paint should be applied by brush, spray, or other application method approved by the Engineer.
- c. Priming and Back Painting
 - 1. Priming – Before installation, all surfaces of millwork which are to be painted shall be primed giving particular attention to sealing of cross-grained surfaces. In all cases, all work shall be primed as soon as possible after delivery to buildings, before or after installation, as required, or in case prefabricated items, at fabricator's shop or mill before shipment, if practicable. Except as otherwise specified, primings shall consist of first coat herein after specified under "Finishes".
 - 2. Back-Painting – Woodwork, millwork and casework to be installed against concrete, masonry or plaster shall be back painted with one coat of exterior oil paint.

XII. PAINTING ITEMS

		M A N U F A C T U R E	
		Boysen	Dutch Boy
<u>Architectural Items</u>		<u>Number</u>	<u>Number</u>
a)	<u>Exterior Finishes</u>		
1.	<u>On Concrete Walls</u> Two Coats, Concrete Masonry Paint	BT01/B715 B710	A69EXZ
2.	<u>Upprimed Ferrous Metal</u> <u>Including GI Roofing</u> First Coat: Rush inhibitive ferrous Metal primer Second Coat: Exterior Enamel	B320 B2501	20724 20-125
3.	<u>On Concrete Block Wall</u> First Coat: Concrete block primer sealer	B701	103
	Second Coat: Concrete Masonry Paint	B701	55B00
	Third Coat: Concrete Masonry Paint	B701	55B00
4.	<u>On Wood</u> First Coat: Exterior Wood Primer Second Coat: Exterior Enamel Third Coat: Exterior Enamel	B800 B600 B600	25F 10X 10X
b.	<u>Interior Finishes</u> Location of the various finishes are listed in the Finish Schedule on the Drawings or else will be confirmed by the PPA.		
1)	On primer & coated metal two coats of interior semi- gloss enamel or as indicated in the schedule finish	B200	22101
2)	<u>On Plaster</u> First Coat: Pigmented Sealer Second Coat: Enamel undercoater Third Coat: Interior flat enamel	B701 B701	103 22
3)	<u>On Wood</u> First Coat:		

	Enamel undercoater	B800	.001
	Second Coat:		
	Enamel undercoater	B800	.001
	Third Coat:		
	Interior flat enamel	B800	23-001
4)	<u>Wood Stain Finish</u>		
	Oil Stain with Filler	B2700	23-11
	Boiled on top coat		36-001
5)	<u>Wood Lacquer Finish</u>		
	Wood Paste Filler w/ natural	B60/B1258	23-11
	Oil top coat of lacquer	B60/B1253	68-064
c) <u>Non-Architectural items</u>			
(Piping, Valves, Equipment, etc.			
1)	Piping, valves, equipment etc. in rooms are to be painted		
2)	Galvanized pipes & ducts		
	Primer – one coat	B320	70-56
	Finish	B2501/B600	22-101
3)	Black Steel Pipes		
	Primer – one coat	B320	.041
	Finish – one coat	B2501/B600	22-101
4)	Mechanical Items		
a)	Ungalvanized Ferrous Metal		
	Primer – one coat	B320	37-745
	Finish – one coat	B2501/B600	22-101
b)	Galvanized Ferrous Metal		
	Primer – one coat	B320	70-56
	Finish – one coat	B2501/B600	22-101
c)	Submerged Galvanized Ferrous Metal		
	Primer – one coat	B2200	60-709
d)	Burried Miscellaneous Ferrous surface, valves, & flanged joints (excl. pipe)	B2199	
	Primer – one coat	Coal-tar enamel or Match adjacent pipe Coating (if any)	