



PPG Industries, Inc.

PITTSBURGH P A I N T S

Specification for Protective Coatings & Exterior Painting

Location: Bayshore Village
Morro Bay, Ca.

Prepared by: Rich Eilers / PPG Industries

Date: March 29, 2005

2. SCOPE

2.1 This specification defines the requirements for surface preparation, coating systems, minimum and maximum dry film thickness, special application instructions when necessary and inspection for painting of specified substrates.

3. MINIMUM SPECIFICATION

3.1 If instructions contained in this Specification, bid documents or the Painting Schedule are at variance with the paint manufacturer's instructions or the applicable standards and codes published by SSPC or OSHA, surfaces shall be prepared and paint applied to meet the higher standard, as determined by the design authority.

4. RESOLUTION OF CONFLICTS

4.1 The Contractor shall be responsible for requesting prompt clarification when instructions are lacking, conflicts occur in the specification and/or paint manufacturer's literature, or the procedure specified is not clearly understood. In the event the Contractor fails to resolve these conflicts which may exist, he shall be responsible for handling the discrepancies in a manner as prescribed by the design authority at no additional cost to the owner.

5. SAFETY

5.1 All pertinent safety regulations, both the owner's and OSHA's, shall be adhered to rigidly. In addition, all safety precautions noted on the manufacturer's product data sheets and labels shall be observed for both materials and equipment.

6. PERMITS

6.1 The Contractor shall obtain, at his own expense, all permits and licenses and shall comply with all laws, codes and ordinances promulgated by authorities having jurisdiction which may bear on the work.

7. COORDINATION OF WORK

7.1 The Contractor shall be responsible for coordination of his work with other crafts and contractors working on the same job and with the owner.

8. WORKMANSHIP

8.1 The application shall leave no sags, runs or holidays. Any damage in any coat shall be repaired to conform to this specification prior to final inspection.

8.2 Where required, imperfections and holes in surfaces to be coated shall be cleaned and repaired in a manner approved by the design authority.

8.3 Each coat shall be applied in a different color or shade from the preceding coat to aid in determining the uniformity and coverage of the coating.

8.4 No coating should be applied unless the surface is a minimum of 5ø above the dew point. This requirement also applies during curing of the coatings.

Ambient Air Temperature ° F	20	30	40	50	60	70	80	90	100	110	120
Relative Humidity 90 %	18	28	37	47	57	67	77	87	97	107	117
85 %	17	26	36	45	55	65	75	84	95	104	113
80 %	16	25	34	44	54	63	73	82	93	102	110
75 %	15	24	33	42	52	62	71	80	91	100	108
70 %	13	22	31	40	50	60	68	78	88	96	105
65 %	12	20	29	38	47	57	66	76	85	93	103
60 %	11	19	27	36	45	55	64	73	83	92	101
55 %	9	17	25	34	43	53	61	70	80	89	98
50 %	6	15	23	31	40	50	59	67	77	86	94
45 %	4	13	21	29	37	47	56	64	73	82	91
40 %	1	11	18	26	35	43	52	61	69	78	87
35 %	-2	8	16	23	31	40	48	57	65	74	83
30 %	-6	4	13	20	28	36	44	52	61	69	77

Dew Point Chart -- Temperature at which moisture will condense on the surface.

Example:

Exterior Coatings
09800-2
Bayshore Village HOA
Morro Bay, Ca.

If the ambient air temperature is 70° F and the humidity is 65%, the dew point is 57° F and no coating should be applied unless the surface temperature is at least 62° F.

9. CLEANUP

9.1 Defaced Surfaces

9.1.1 At the completion of the work, the Contractor shall remove all spilled or splashed paint or over-spray from surfaces that have been defaced.

9.2 Material and Debris Removal

9.2.1 At completion of the work, the Contractor shall remove from the job site all painting equipment, scaffolding, surplus materials and debris resulting from his work.

9.3 Trash and Debris

9.3.1 The Contractor shall be responsible for keeping trash and debris from collecting or being spread across the job site during the course of the job. Oil and solvent soaked rags shall not be allowed to accumulate and they shall be removed from the job site frequently.

9.4 Blasting Sand

9.4.1 The Contractor shall be responsible for removing all blasting media from equipment, structures and work area at the completion of the work.

10. MATERIALS

10.1 Specified Materials

10.1.1 All materials specified are from PPG Industries, Inc., and are intended to establish standards of quality and generic types. Similar coatings of equal quality may be approved upon written submittal to owner's engineer.

10.2 Delivery Conditions

10.2.1 All coating materials shall be delivered to the job site in the original and unopened containers, plainly marked with the proper designation of the product, as well as the name of the manufacturer. All coating materials at the job site shall be subject to inspection by the design authority.

10.3 Storage Conditions

10.3.1 All painting materials shall be stored in a clean, dry, well ventilated place, protected from sparks, flame, direct rays of the sun, and excessive heat or cold. The Contractor shall be solely responsible for the protection and safety of the materials stored by himself at the job site.

10.4 Paint Additives

10.4.1 Paint additives are prohibited unless specified and approved by design authority or the coating manufacturer.

10.5 Colors

10.5.1 Colors for individual items shall be as specified in the Finish Painting Schedule, of this Specification and/or the Painting Schedule submitted as a part of the scope of Work documents with the Scope of Work Schedule taking precedence. Colors shall not be substituted without written approval of the design authority.

11. GENERAL

11.1 Surfaces not to be painted shall be protected during cleaning and painting operations.

11.2 Before any surface is coated, it shall be cleaned carefully of all dust, dirt, grease, loose rust, mill scale, old paint, etc. Immediately prior to painting the surface shall be inspected for compliance with the specified degree of surface preparation.

11.3 All cleaned metal shall be prime coated, as specified, immediately after cleaning to prevent new rusting or oxidation of cleaned surfaces. In all cases, blast-cleaned steel shall be coated within 8 hours and there shall be a 12" band of exposed steel unprimed to indicate a starting and stopping point for the day's work. This area (band) should be re-blasted prior to applying coatings.

11.4 If more than one day passes between subsequent coats, those contaminated areas must be further prepared by either brush-off blast, water blasting, or steam

11.5 Exterior painting shall only take place when good weather conditions prevail. Painting shall not be undertaken during foggy or misty conditions or when rain or snow are imminent

11.6 When substrate temperatures are high, care must be taken while applying the paint to prevent formation of voids, pin holes, and bubbles due to the rapid evaporation of solvent.

11.7 All jobs should be inspected, at various stages of surface preparation and coating application.

12. Notes and Cautions

Ensure Proper Conditions for Application Before any surface is coated, it shall be cleaned of all dust, dirt, grease, loose rust, mill scale, loose paint, etc. Imperfections and holes in surfaces to be coated shall be cleaned and filled in an approved manner.

Exterior painting shall only take place when good weather conditions prevail. Painting shall not be undertaken during foggy or misty conditions or when rain or snows are imminent. The temperature of the surface to be painted should be at least 5° F (3° C) above the dew point. When substrate temperatures are high, care must be taken while applying the paint to prevent formation of voids, pinholes, and bubbles due to the rapid evaporation of solvent. All jobs should be inspected, at various stages of surface preparation and coating application. Inspections should be carried out either by qualified in house personnel or by outside inspection firms.

Remove the Mill Scale Mill scale is a poor substrate for coatings. Mill scale will eventually break away from the steel surface taking any coating with it. For coatings that serve in corrosive or aggressive environments or areas where a failed coating will be difficult to reach and repair remove the mill scale before coating the steel.

Clean any Bolts, Paint them using a Brush

Bolts should be degreased prior to priming. The primer and topcoats should be applied by brush to achieve complete and uniform coverage.

Mask Faying Surfaces After Priming

If faying surfaces are to be primed they must be masked after priming to prevent topcoating of the faying surfaces. Application of the topcoat to a faying surface may lead to loosening of friction joints.

Ensure Adequate Ventilation

Adequate ventilation while applying and curing coatings is important for health and safety reasons and to ensure proper curing of the coating. When applying coatings in confined spaces, solvent vapors may accumulate, leading to intoxication of workers or fire and explosion. Flammable solvents and the atomized coatings are generally heavier than air and tend to settle in the lower areas of confined spaces. Consider this when designing and installing the ventilation system.

13. COATING SCHEDULE

System 1 – Exterior Wood Surfaces

A. Coating Selection:

Coatings applied shall be Pittsburgh® Paints as manufactured by PPG Industries, Inc.

B. Surface Preparation / Pretreatment:

Power Wash all surfaces to receive coating to remove loose paint, dirt, chalk, dust, and chemical contamination. Mildew evident on surfaces should be killed and cleaned from surfaces during power wash stages. All grease or oil should be removed in accordance with SSPC – SP 1 Emulsion Cleaning. Clean contaminated surfaces with biodegradable cleaner, followed by clear water rinse, allow to air dry. Patch cracks and voids with appropriate caulking materials.

C. Finish Coat

Apply one coat of PPG Manor Hall Timeless 100% Acrylic # 73-410 Series as per label and technical data instructions, so as to achieve *2.20 to 2.70 mils dry film thickness.

*Note: Manor Hall Timeless can be applied using a 19 to 21 spray tip at a higher yield to achieve dry mils of 6, with square footage being reduced from published technical data specifications.

System 2 – Exterior Wood and Metal Trim

A. Coating Selection:

Coatings applied shall be Pittsburgh® Paints as manufactured by PPG Industries, Inc.

B. Surface Preparation / Pretreatment:

Power Wash all surfaces to receive coating to remove loose paint, dirt, chalk, dust, and chemical contamination. Mildew evident on surfaces should be killed and cleaned during power wash stages. All grease or oil should be removed in accordance with SSPC – SP 1 Emulsion Cleaning. Clean contaminated surfaces with biodegradable cleaner, followed by clear water rinse, allow to air dry. Caulk all seams and joints with appropriate flexible patching materials.

D. Finish Coat:

Apply one coat of PPG Manor Hall Timeless 100% Acrylic #73-410 Series as per label and technical data instructions, so as to achieve 2.20 to 2.70 mils dry film thickness.

System – 3 Exterior Steel Pipes (Water/ Gas) Surfaces

A. Coating Selection:

Coatings applied shall be Pittsburgh Paints as manufactured by PPG Industries, Inc.

B. Surface Preparation / Pretreatment:

All grease or oil should be removed in accordance with SSPC SP1 Emulsion or Solvent Cleaning. Surfaces should be abraded by the method of SSPC SP2 Hand Tool Cleaning to open surfaces and to remove rust. This will allow maximum adhesion for prime coat on the metal substratight and to encapsulate remaining rust.

C. Prime Coat:

Apply one coat of PPG Pitt-Guard DTR #97-145 as per label and technical data instructions, so as to achieve 5.9 to 7.0 mils dry film thickness.

D. Finish Coat

Apply one coat of PPG Manor Hall Timeless 100% Acrylic # 73-410 Series as per label and technical data instructions, so as to achieve 2.20 to 2.70 mils dry film thickness.

System – 4 Exterior Garage Doors - Metal

A. Coating Selection:

Coatings applied shall be Pittsburgh Paints as manufactured by PPG Industries, Inc.

B. Surfaces Preparation / Pretreatment:

All grease and oil should be removed in accordance with SSPC SP 1 Emulsion or Solvent cleaning. Surfaces should be abraded by the method of SSPC SP 2 Hand Tool Cleaning to open surfaces for maximum adhesion for prime and finish coat.

C. Prime Coat:

Apply one coat of PPG Pitt-Tech Direct to Metal Primer #90-712 series as per label and technical data instructions; so as to achieve 2.0 to 3.0 mils dry film thickness.

D. Finish Coat:

Apply one coat of PPG Manor Hall Exterior Semi Gloss Finish #75-45 as per label and technical data instructions; so as to achieve 1.1 to 1.4 mils dry film thickness.

System – 5 Exterior Entry Doors

A. Coatings Selection:

Coating applied shall be Pittsburgh Paints as manufactured by PPG Industries, Inc.

B. Surface Preparation / Pretreatment:

All grease or oil should be removed in accordance with SSPC SP 1 Emulsion or Solvent Cleaning. Surface should be abraded by the method of SSPC SP 2 Hand Tool Cleaning to open surface which will allow maximum adhesion.

C. Prime Coat:

Apply one coat of PPG Seal Grip 100% Acrylic Primer #17-921 as per label and technical data instruction, so as to achieve 1.2 to 1.5 mils dry film thickness.

D. Finish Coat:

Apply one coat PPG Manor Hall Exterior Semi Gloss Finish #75-45 as per label and technical data instructions; so as to achieve 1.1 to 1.4 mils dry film thickness.



PITTSBURGH® PAINTS HIGH PERFORMANCE COATINGS 10 YEAR LIMITED WARRANTY

This Limited Warranty is given by PPG Architectural Finishes Inc. ("PPG") to the Building Owner and the Painting Contractor Identified below for the PITTSBURGH PAINTS Coatings System (the "Products") and Building Project (the "Building") also identified below

PPG warrants to the Building Owner/Painting Contractor that the Products when properly applied by the Painting Contractor to a properly prepared surface of the Building, all in accordance with label directions and PPG's technical specifications will not under normal atmospheric conditions, crack, flake, blister or peel for 10 years after application. This warranty does not cover failure of the Products caused by breakdown or condition of the substrate of the underlying surface previous paint film, conditions caused by structural defects, building settling or movement, vandalism, misuse of the painted surface or causes beyond PPG's control. PPG MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR USE, CONCERNING USE OF THE PRODUCT FOR THE BUILDING.

In the event the Products fail to conform to this Limited Warranty, PPG AS ITS SOLE LIABILITY TO EITHER THE BUILDING OWNER OR PAINTING CONTRACTOR, AND IN LIEU OF ANY DIRECT OR INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, will at PPG's option and cost, furnish replacement Products of refund the purchase price of any failed products.

Agreed to and accepted

PPG Architectural Finishes, Inc.

By: Barry Eichenberger
Name: Barry Eichenberger
Title: Zone Manager West
Date: Pending

Manor Hall Timeless Paint Coating

Furnished quantities of replacement Products shall be warranted only for the remainder of the original warranty period. All claims under this warranty will be waived unless made in writing to PPG by the Building Owner and/or Painting Contractor within 30 days after either is informed or becomes aware of a failure of the Products; and PPG must be given a reasonable and prompt opportunity to inspect the area claimed to have a defective Product.

This Limited Warranty shall apply and be effective only if: PPG is given reasonable access to the Building during all stages of the painting/preparation and application work; any improper surface preparation/painting application work found by PPG during any inspection of such work, is properly corrected (PPG having no obligation to make such an inspection); and, this Limited Warranty is signed by PPG's Regional Manager, the Building Owner, and the Painting Contractor.

This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Agreed to and accepted

Painting or General Contractor:

By: [Signature]
Name: Pending
Title: [Signature]
Date: [Signature]

Agreed to and accepted

By: [Signature]
Name: Bayshore Village HOA
Title: [Signature]
Date: [Signature]