SECTION 09 90 00

PAINTING AND COATING

PART 1 – GENERAL

1.1 PURPOSE

A. This guideline is intended to provide useful information to the Professional Service Provider (PSP) to establish a basis of design. PSP is to apply the principles of this section such that the University of Texas at Arlington (UTA) may achieve a level of quality and consistency in the design and construction of their facilities. Deviations from these guidelines must be approved by UTA and may require justification through Life Cycle Cost (LCC) analysis and submitted to UTA for approval.

1.2 LESSONS LEARNED AND DESIGN CONSIDERATIONS

A. Refer to PART 4 – APPENDIX for campus standard paint colors.

B. Each project's color scheme is dependent on the design of that project and will be considered by UTA.

C. The paint system description in this section is listed as a Basis of Design. Other manufacturers will be considered if the paint system meets or exceeds the performance described herein.

1.3 SECTION INCLUDES

D. Interior paint and coating systems including surface preparation.

E. Exterior paint and coating systems including surface preparation.

1.4 RELATED SECTIONS

A. Section 03 30 00 – Concrete: Surface coordination and curing provisions.

B. Section 05 50 00 – Metal Fabrications: Shop priming ferrous metal.

C. Section 06 40 23 – Interior Architectural Woodwork: Shop-applied stains and transparent finishes.

D. Section 23 05 53 – Mechanical Identification.

1.5 REFERENCES

A. Steel Structures Painting Council (SSPC):

1. SSPC-SP 1 - Solvent Cleaning.
2. SSPC-SP 2 - Hand Tool Cleaning.
3. SSPC-SP 3 - Power Tool Cleaning.
4. SSPC-SP5/NACE No. 1, White Metal Blast Cleaning.
5. SSPC-SP6/NACE No. 3, Commercial Blast Cleaning.
6. SSPC-SP7/NACE No. 4, Brush-Off Blast Cleaning.
7. SSPC-SP10/NACE No. 2, Near-White Blast Cleaning.
8. SSPC-SP11, Power Tool Cleaning to Bare Metal.
9. SSPC-SP12/NACE No. 5, Surface Preparation and Cleaning of metals by Water jetting prior to Recoating.
10. SSPC-SP 13/NACE No. 6 Surface Preparation for Concrete.

B. Environmental Protection Agency (EPA): Method 24 - Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings.

C. South Coast Air Quality Management District (SCAQMD): Rule 113 - Architectural Coatings.

D. Green Seal, Inc.:

1. GS-11 Standard for Paints and Coatings.
2. GC-03 - Environmental Criteria for Anti-Corrosive Paints.

E. United States Green Building Council (USGBC): LEED-NC/CI/CS with addenda.

1.6 SUBMITTALS

A. Submit under provisions of Division 01 for submittal procedures.

B. Product Data: For each paint system indicated, including.

1. Product characteristics.
2. Surface preparation instructions and recommendations.
3. Primer requirements and finish specification.
4. Storage and handling requirements and recommendations.

5. Application methods.
6. Cautions for storage, handling and installation.

C. Selection Samples: Submit a complete set of color chips that represent the full range of manufacturer's products, colors and sheens available.

D. Verification Samples: For each finish product specified, submit samples that represent actual product, color, sheen and texture.

E. Sample Size: Provide 12”x12” samples on actual substrates.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: A firm or individual experienced in applying paints and coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.

B. Paint exposed surfaces. If a color finish or a surface is not specifically mentioned, Architect will select from standard products, colors and sheens available.

C. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels unless indicated.

D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

1. Finish surfaces for verification of products, colors, sheens and texture.
2. Finish area designated by Architect and UTA Project Manager.
3. Provide samples that designate primer and finish coats.
4. Do not proceed with remaining work until the Architect and UTA Project Manager approves the mock-up.
5. Provide a 4’x4’ mock-up area.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacturer's name, label, and the following list of information.

1. Product name and type (description).
2. Application and use instructions.
3. Surface preparation.
4. VOC content.
5. Environmental issues.
6. Batch date.
7. Color number.

B. Storage: Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

C. Store materials in an area that is within the acceptable temperature range, per manufacturer's instructions. Protect from freezing.

D. Handling: Maintain a clean, dry storage area, to prevent contamination or damage to the coatings.

1.9 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.10 EXTRA MATERIALS

A. Furnish extra paint materials from the same production run as the materials applied and in the quantities described below. Package with protective covering for storage and identify with labels describing contents. Deliver extra materials to Owner.

B. Furnish Owner with an additional one percent of each material and color, but not less than 1 gal (3.8 l) or 1 case, as appropriate.

C. Indicate final color schedule used in Operation and Maintenance Manuals.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:
   1. Kelly-Moore
   2. Sherwin-Williams
   3. Benjamin Moore
   4. Requests for substitutions will be considered in accordance with provisions of Division 01.

2.2 APPLICATIONS/SCOPE

A. Interior Paints and Coatings:
   1. Concrete: Poured, precast, tilt-up, cast-in-place, cement board, plaster.
   2. Masonry: Concrete masonry units, including split-face, scored, and smooth block.

B. Metal: Aluminum, galvanized steel.
   1. Metal: Structural steel, joists, trusses, beams, partitions and similar items.
   2. Wood: Walls, ceilings, doors, trim and similar items.
   3. Wallboard: Gypsum drywall.

C. Exterior Paints and Coatings:
   1. Concrete: Concrete Floors, Patios, Porches, Steps and Platforms.
   2. Metal: Aluminum, Galvanized.
   3. Metal: Misc. Iron, Ornamental Iron, Ferrous Metal.
   4. Wood: Siding, Trim, Shutters, Sash, and Misc. Hardboard.

2.3 PAINT MATERIALS - GENERAL

A. Paints and Coatings.
   1. Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
   2. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color. Or follow manufactures product instructions for optimal color conformance. On **ALL** interior renovation projects use Low Odor/Low VOC version of paint specified herein.
   3. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
   4. Coating Application Accessories: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required, per manufacturer's specifications.
   5. Color: Refer to Finish Schedule for paint colors, and as selected.

2.4 INTERIOR PAINT SYSTEMS

A. CONCRETE: (Walls and Ceilings, Poured Concrete, Precast Concrete, Unglazed Brick, Cement Board, Tilt-Up, Cast-In-Place).
   1. Latex Systems:
      a). Eg-Shel / Satin Finish:
         1). 1st Coat: S-W Loxon Acrylic Masonry Primer, A24W8300 (8 mils wet, 3.2 mils dry).
         2). 2nd Coat: S-W ProMar 200 Latex Eg-Shel Enamel, B20-2200 Series.
         3). 3rd Coat: S-W ProMar 200 Latex Eg-Shel Enamel, B20-2200 Series (4 mils wet, 1.3 mils dry per coat).
      b). Eg-Shel / Satin Finish (Low Odor - Zero VOC Finish):
         1). 1st Coat: S-W Loxon Acrylic Masonry Primer, A24W8300 (8 mils wet, 3.2 mils dry).
         2). 2nd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series.
         3). 3rd Coat: S-W ProMar 200 Zero VOC Latex Eg-Shel, B20-2600 Series (4 mils wet,1.6 mils dry per coat).

B. MASONRY: CMU - Concrete, Split, Scored, Smooth, Fluted.
   1. Latex Systems:
      a). Eg-Shel / Satin Finish:
         1). 1st Coat: S-W PrepRite Block Filler, B25W25 (75-125 sq. ft. /gal).
         2). 2nd Coat: S-W ProMar 200 Latex Eg-Shel, B20-2200 Series.
         3). 3rd Coat: S-W ProMar 200 Latex Eg-Shel, B20-2200 Series (4 mils wet, 1.6 mils dry per coat).

b). Eg-Shel / Satin Finish (Low Odor - Low VOC):
1). 1st Coat: S-W PrepRite Block Filler, B25W25 (75-125 sq. ft. /gal).
2). 2nd Coat: S-W ProGreen 200 Interior Latex Eg-Shel, B20W651
3). 3rd Coat: S-W ProGreen 200 Interior Latex Eg-Shel, B20W651 (4 mils wet, 1.6 mils dry per coat).

C. METAL: Aluminum, Galvanized.
1. Latex Systems:
a). Semi-Gloss Finish:
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2-4 mils dry).
2). 2nd Coat: S-W ProMar 200 Latex Semi-Gloss, B31-2200 Series.
3). 3rd Coat: S-W ProMar 200 Latex Semi-Gloss, B31-2200 Series (4 mils wet, 1.3 mils dry per coat).
b). Semi-Gloss (Low Odor/Lower VOC):
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2-4 mils dry).
2). 2nd Coat: S-W ProGreen 200 Interior Latex Semi-Gloss, B31-600 Series.
3). 3rd Coat: S-W ProGreen 200 Interior Latex Semi-Gloss, B31-600 Series (4 mils wet,1.6 mils dry per coat).
2. Dryfall Waterborne Topcoats:
a). Semi-Gloss Finish:
1). 1st Coat: S-W Low VOC Waterborne Acrylic Dryfall, B42W83.
2). 2nd Coat: S-W Low VOC Waterborne Acrylic Dryfall, B42W83 (11 mils wet, 4.5 mils dry per coat).
b). Eg-Shel Finish:
1). 1st Coat: S-W Low VOC Waterborne Acrylic Dryfall, B42W82.
2). 2nd Coat: S-W Low VOC Waterborne Acrylic Dryfall, B42W82 (11 mils wet, 4.5 mils dry per coat).

D. METAL -Steel (Structural Steel Columns, Joists, Trusses, Beams, Miscellaneous and Ornamental Iron, Structural Iron, and Ferrous Metal):
1. Latex Systems:
a). Semi-Gloss Finish:
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2-4 mils dry).
2). 2nd Coat: S-W ProMar 200 Latex Semi-Gloss, B31-2200 Series.
3). 3rd Coat: S-W ProMar 200 Latex Semi-Gloss, B31-2200 Series (4 mils wet, 1.3 mils dry per coat).
b). Semi-Gloss Finish (Low Odor/Lower VOC):
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2-4 mils dry).
2). 2nd Coat: S-W ProGreen 200 Interior Latex Semi-Gloss, B31-600 Series.
3). 3rd Coat: S-W ProGreen 200 Interior Latex Semi-Gloss, B31-600 Series (4 mils wet, 1.6 mils dry per coat).
2. Alkyd Systems:
a). Semi-Gloss Water Base Finish:
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2.0 - 4.0 mils dry per coat).
2). 2nd Coat: S-W ProMar 200 Waterbased Acrylic/Alkyd Semi-Gloss, B34-8200 Series.
3). 3rd Coat: S-W ProMar 200 Waterbased Acrylic/Alkyd Semi-Gloss, B34-8200 Series (4 mils wet, 1.7 mils dry per coat).
b). Semi-Gloss Low VOC Solvent Base Finish:
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2-4 mils dry).
2). 2nd Coat: S-W ProClassic XP Interior Alkyd Semi-Gloss, B34W551.
3). 3rd Coat: S-W ProClassic XP Interior Alkyd Semi-Gloss, B34W551 (4 mils wet, 3.7 mils dry per coat).
3. Dryfall Waterborne Topcoats:
a). Semi-Gloss Finish:
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2-4 mils dry).
2). 2nd Coat: S-W Low VOC Waterborne Acrylic Dryfall, B42W83.
b). Eg-Shel Finish:
1). 1st Coat: S-W Pro Industrial Pro-Cryl Primer, B66-310 Series (2-4 mils dry).
2). 2nd Coat: S-W Low VOC Waterborne Acrylic Dryfall, B42W82.

E. WOOD - Walls, Ceilings, Doors, Trim.
   1. Latex Systems:
      a). Semi-Gloss Finish:
         1). 1st Coat: S-W PrepRite ProBlock Latex. B51 Series (4 mils wet, 1.4 mils dry).
         2). 2nd Coat: S-W ProMar 200 Latex Semi-Gloss, B31-2200 Series.
         3). 3rd Coat: S-W ProMar 200 Latex Semi-Gloss, B31-2200 Series (4 mils wet, 1.3 mils dry per coat).
      b). Semi-Gloss (Low Odor - Low VOC):
         1). 1st Coat: S-W PrepRite ProBlock Latex. B51 Series (4 mils wet, 1.4 mils dry).
         2). 2nd Coat: S-W ProGreen 200 Interior Latex Semi-Gloss, B31-600 Series.
         3). 3rd Coat: S-W ProGreen 200 Interior Latex Semi-Gloss, B31-600 Series (4 mils wet, 1.6 mils dry per coat).
   2. Stain and Varnish:
      a). Clear Finish:
         1). 1st Coat: S-W Wood Classics 250 VOC Oil Stain A49-800 Series.
         2). 2nd Coat: S-W Wood Classics Waterborne Polyurethane Varnish.
         3). 3rd Coat: S-W Wood Classics Waterborne Polyurethane Varnish (4 mils wet, 1.0 mil dry per coat).
            a). Sheen: Satin.

F. DRYWALL (Walls, Ceilings, Gypsum Board, Plaster Board and similar items)
   1. Latex Systems:
      a). Eg-Shel / Satin Finish:
         1). 1st Coat: S-W ProMar 200 Latex Primer, B28W8200 (4 mils wet, 1.2 mils dry).
         2). 2nd Coat: S-W ProMar 200 Latex Eg-Shel, B20-2200 Series.
         3). 3rd Coat: S-W ProMar 200 Latex Eg-Shel, B20-2200 Series (4 mils wet, 1.6 mils dry per coat).
      b). Eg-Shel / Satin Finish (Low Odor - Zero VOC):
         1). 1st Coat: S-W Harmony Low Odor Interior Latex Primer, B11 (4 mils wet, 1.3 mils dry per coat)
         2). 2nd Coat: S-W Harmony Low Odor Interior Latex Eg-Shel, B9 Series
         3). 3rd Coat: S-W Harmony Low Odor Interior Latex Eg-Shel, B9 Series (4 mils wet, 1.8 mils dry per coat).

2.5 EXTERIOR PAINT SYSTEMS

A. CONCRETE: Concrete Floors, Patios, Porches, Steps and Platforms.
   1. Acrylic System Water-Based:
      a). Floor Finish:
         1). 1st Coat: S-W Porch and Floor Enamel, A32-Series.
         2). 2nd Coat: S-W Porch and Floor Enamel, A32-Series (4 mils wet; 1.4 mils dry per coat).

B. METAL: Aluminum, Galvanized.
   1. Latex Systems:
      a). Semi-Gloss Finish:
         1). 1st Coat: S-W Metalatex Acrylic Semi-Gloss, B42 Series.
         2). 2nd Coat: S-W Metalatex Acrylic Semi-Gloss, B42 Series (4 mils wet, 1.5 mils dry per coat).

C. METAL: Misc. Iron, Ornamental Iron, Structural Iron and Steel, Ferrous Metal.
   1. Latex Systems:
      a). Semi-Gloss Finish:
         1). 1st Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66-310 Series (5-10 mils wet, 2-4 mils dry).
         2). 2nd Coat: S-W Metalatex Acrylic Semi-Gloss, B42 Series.
         3). 3rd Coat: S-W Metalatex Acrylic Semi-Gloss, B42 Series (4 mils wet, 1.5mils dry per coat).

D. WOOD: Siding, Trim, Shutters, Sashes, Hardboard-Bare/Primed.
   1. Stain - Water Reducible Systems:
      a). Semi-Transparent:
         1). 1st Coat: S-W WoodScapes Polyurethane Stain, A15T5.
         2). 2nd Coat: S-W WoodScapes Polyurethane Stain, A15T5 (100-350 sq. ft./gal).
      b). Solid Color:
         1). 1st Coat: S-W WoodScapes Solid Color Stain, A15 Series.

2). 2nd Coat: S-W WoodScapes Solid Color Stain, A15 Series (200-400 sq. ft./gal).

PART 3 – EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared; notify Architect and UTA Project Manager of unsatisfactory conditions before proceeding. If substrate preparation is the responsibility of another installer, notify Architect and UTA Project Manager of unsatisfactory preparation before proceeding.

B. Proceed with work only after conditions have been corrected and approved by all parties, otherwise application of coatings will be considered as an acceptance of surface conditions.

3.2 SURFACE PREPARATION

A. General: Surfaces shall be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good adhesion.
   1. Remove mildew before painting by washing with a solution of 1 part liquid household bleach and 3 parts of warm water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry 48 hours before painting. Wear protective glasses or goggles, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.
   2. Remove items including but not limited to thermostats, electrical outlets, switch covers and similar items prior to painting. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
   3. No exterior painting should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F (10°C), unless products are designed specifically for these conditions. On large expanses of metal siding, the air, surface and material temperatures must be 50°F (10°C) or higher to use low temperature products.

B. Aluminum: Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning.

C. Block (Cinder and Concrete): Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, and form release agents, moisture curing membranes, loose cement, and hardeners. Concrete and mortar must be cured at least 30 days at 75°F (24°C). The pH of the surface should be between 6 and 9, unless the products are designed to be used in high pH environments. On tilt-up and poured-in-place concrete, commercial detergents and abrasive blasting may be necessary to prepare the surface. Fill bug holes, air pockets, and other voids with a cement patching compound.

D. Concrete, SSPC-SP13 or NACE 6: This standard gives requirements for surface preparation of concrete by mechanical, chemical, or thermal methods prior to the application of bonded protective coating or lining systems. The requirements of this standard are applicable to all types of cementitious surfaces including cast-in-place concrete floors and walls, precast slabs, masonry walls, and shotcrete surfaces. An acceptable prepared concrete surface should be free of contaminants, laitance, loosely adhering concrete, and dust, and should provide a sound, uniform substrate suitable for the application of protective coating or lining systems.

E. Cement Composition Siding/Panels: Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow drying. Existing peeled or checked paint should be scraped and sanded to a sound surface. Pressure clean, if needed, with a minimum of 2100 psi pressure to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. The pH of the surface should be between 6 and 9, unless the products are designed to be used in high pH environments.

F. Copper and Stainless Steel: Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP 2, Hand Tool Cleaning.

G. Exterior Composition Board (Hardboard): Some composition boards may exude a waxy material that must be removed with a solvent prior to coating. Whether factory primed or unprimed, exterior composition board siding (hardboard) must be cleaned thoroughly and primed with an alkyd primer.

H. Drywall - Exterior: Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting. Exterior surfaces must be spackled with exterior grade compounds.

I. Drywall - Interior: Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust

removed prior to painting.

J. Galvanized Metal: Clean per SSPC-SP1 using detergent and water or a degreasing cleaner to remove greases and oils. Apply a test area, priming as required. Allow the coating to dry at least one week before testing. If adhesion is poor, Brush Blast per SSPC-SP7 is necessary to remove these treatments.

K. Plaster: Must be allowed to dry thoroughly for at least 30 days before painting, unless the products are designed to be used in high pH environments. Room must be ventilated while drying; in cold, damp weather, rooms must be heated. Damaged areas must be repaired with an appropriate patching material. Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow drying.

L. Steel: Structural, Plate, and Similar Items: Should be cleaned by one or more of the surface preparations described below. These methods are used throughout the world for describing methods for cleaning structural steel. Visual standards are available through the Society of Protective Coatings. A brief description of these standards together with numbers by which they can be specified follow.

1. Solvent Cleaning, SSPC-SP1: Solvent cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants. Solvent cleaning does not remove rust or mill scale. Change rags and cleaning solution frequently so that deposits of oil and grease are not spread over additional areas in the cleaning process. Be sure to allow adequate ventilation.
2. Hand Tool Cleaning, SSPC-SP2: Hand Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Beforehand tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1.
3. Power Tool Cleaning, SSPC-SP3: Power Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Before power tool cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1.
4. White Metal Blast Cleaning, SSPC-SP5 or NACE 1: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
5. Commercial Blast Cleaning, SSPC-SP6 or NACE 3: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
6. Brush-Off Blast Cleaning, SSPC-SP7 or NACE 4: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose paint. Tightly adherent mill scale, rust, and paint may remain on the surface. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods.
7. Power Tool Cleaning to Bare Metal, SSPC-SP11: Metallic surfaces that are prepared according to this specification, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxide corrosion products, and other foreign matter. Slight residues of rust and paint may be left in the lower portions of pits if the original surface is pitted. Prior to power tool surface preparation, remove visible deposits of oil or grease by any of the methods specified in SSPC-SP1, Solvent Cleaning, or other agreed upon methods.
8. Near-White Blast Cleaning, SSPC-SP10 or NACE 2: Near White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 5% of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
9. High- and Ultra-High Pressure Water Jetting for Steel and Other Hard Materials: SSPC-SP12 or NACE 5: This standard provides requirements for the use of high- and ultra-high pressure water jetting to achieve

various degrees of surface cleanliness. This standard is limited in scope to the use of water only without the addition of solid particles in the stream.

a). Water Blasting, SSPC-SP12/NACE No. 5: Removal of oil grease dirt, loose rust, loose mill scale, and loose paint by water at pressures of 2,000 to 2,500 psi at a flow of 4 to 14 gallons per minute.

10. Vinyl Siding, Architectural Plastics, EIFS and Fiberglass: Clean thoroughly by scrubbing with a warm, soapy water solution. Rinse thoroughly. Do not paint vinyl siding with any color darker than the original color, unless the product and color are designed for such use. Painting with darker colors may cause siding to warp.
11. Stucco: Must be clean and free of any loose stucco. If recommended procedures for applying stucco are followed, and normal drying conditions prevail, the surface may be painted in 30 days. The pH of the surface should be between 6 and 9, unless the products are designed to be used in high pH environments such as Loxon.
12. Wood: Must be clean and dry. Prime and paint as soon as possible. Knots and pitch streaks must be scraped, sanded, and spot primed before a full priming coat is applied. Patch all nail holes and imperfections with a wood filler or putty and sand smooth.

3.3 INSTALLATION

A. General: Apply all coatings and materials with manufacture specifications in mind. Mix and thin coatings according to manufacturer's recommendations.
B. Do not apply to wet or damp surfaces. Wait at least 30 days before applying to new concrete or masonry. Or follow manufacturer's procedures to apply appropriate coatings prior to 30 days. Test new concrete for moisture content.
C. Apply coatings using methods recommended by manufacturer.
D. Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.
E. Apply coatings at spreading rate required to achieve the manufacturers recommended dry film thickness.
F. Regardless of number of coats specified, apply as many coats as necessary for complete hide, and uniform appearance.

3.4 PROTECTION

A. Protect finished coatings from damage until completion of project.
B. Touch-up damaged coatings after substantial completion, following manufacturer's recommendation for touch up or repair of damaged coatings. Repair any defects that will hinder the performance of the coatings.

PART 4 – APPENDIX

4.1 PRODUCT DATA / CUT SHEETS

A. Kelly-Moore Paints, New Linen – Color Paint Chip
B. Kelly-Moore Paints, Custom Tan – Color Paint Chip
C. Kelly-Moore Paints, UTA Logo Orange – Color Paint Chip
D. Kelly-Moore Paints, UTA Logo Blue – Color Paint Chip
E. Kelly-Moore Paints, Stadium Blue – Color Paint Chip
F. Kelly-Moore Paints, NBC White – Color Paint Chip
G. Devoe High Performance, Architectural Brown – Color Paint Chip
H. PPG, Pitt-Tech, Bronzetone – Color Paint Chip
I. Paint Schedule
J. Kelly-Moore Paints, Acryplex 1650 – Interior Semi-gloss Enamel, Product Data
K. Kelly-Moore Paints, Kel-Bond 295 – Interior/Exterior Universal Primer, Product Data
L. Devoe High Performance, Devcryl 1449 – Water Borne Acrylic, Product Data
M. Kelly-Moore Paints, Prime & Fill 521 – Interior/Exterior Block Filler, Product Data
N. Kelly-Moore Paints, Acryshield 247 – Exterior Masonry Primer, Product Data
O. Kelly-Moore Paints, DuraPoxy 1680 – Interior Gloss Enamel, Product Data
P. Devoe High Performance, Devguard 4308 – Alkyd, Product Data, Product Data
Q. PPG, Pitt-Tech, 90-474 – Interior/Exterior Satin DTM Industrial Enamels, Product Data
R. Kelly-Moore Paints, Kel-Guard 1710 – Alkyd Rust-Preventative Primer, Product Data
S. McCloskey, Man O' War – Marine Spar Varnish, Product Data
T. Gemini, Precatalyzed Waterborne Lacquer WPC-00XX – Waterborne Coating, Product Data

END OF SECTION

KELLY-MOORE® PAINTS

Store 1807 – Arlington
2506 So Cooper Arlington, Tx. 76015
(817) 261 – 2524

System: CCA

AX	0 Y 10.0000
C	0 Y 30.0000
L	1 Y 42.0000

UTA/PAINT SHOP
PO#/Job Name:

Date: 11/06/2018

1650 – 121 – 5G

29 **NEW LINEN**

CF180728148060

IMPORTANT NOTICE: **Custom tinted colors are non – returnable. Please check the color before using. To ensure color consistency, box paint together in a larger container.**

KELLY-MOORE® PAINTS

Store 1807 – Arlington
2506 So Cooper Arlington, Tx. 76015
(817) 261 – 2524

System: CCA

C	12 Y 24.0000
F	0 Y 37.0000
L	20 Y 12.0000

UTA/PAINT SHOP

PO#/Job Name:
STANDARD CLASSROOM WALLS

Date: 11/06/2018

1650 – 222 – 5G

12 – 743 – 1807 **CUSTOM**

CF180728148079

IMPORTANT NOTICE: **Custom tinted colors are non – returnable. Please check the color before using. To ensure color consistency, box paint together in a larger container.**

KELLY-MOORE® PAINTS

Store 1807 – Arlington
2506 So Cooper Arlington, Tx. 76015
(817) 261 – 2524

System: CCA

KX	5 Y 0.0000
R	13 Y 6.0000
T	15 Y 30.0000

UTA/PAINT SHOP

PO#/Job Name:
DEVCRYL 1449 UD BS 5G

Date: 11/06/2018

17 – 1425 – 1807 **UTA ORANGE**

CF180728148075

IMPORTANT NOTICE: **Custom tinted colors are non – returnable. Please check the color before using. To ensure color consistency, box paint together in a larger container.**

KELLY-MOORE®
PAINTS

Store 1807 – Arlington
2506 So Cooper Arlington, Tx. 76015
(817) 261 – 2524

UTA/PAINT SHOP
PO#/Job Name:
DEVCRYL 1449 UD BS 5G
Date: 11/06/2018

System: CCA

EU	22 Y 24.0000
KX	6 Y 42.0000
V	10 Y 0.0000

17 – 1423 – 1807 **UTA BLUE**

CF180728148074

IMPORTANT NOTICE: Custom tinted colors are non – returnable. Please check the color before using. To ensure color consistency, box paint together in a larger container.

KELLY-MOORE® PAINTS

Store 1807 – Arlington
2506 So Cooper Arlington, Tx. 76015
(817) 261 – 2524

System: CCA

B	0 Y 20.0000
DU	2 Y 16.0000
EU	6 Y 38.0000
KX	0 Y 12.0000

UTA/PAINT SHOP
PO#/Job Name:

Date: 11/06/2018
1686 – 555 – 1G
18 – 1057 – 1807 **UTA STADIUM BLUE**

CF180728148059

IMPORTANT NOTICE: **Custom tinted colors are non – returnable. Please check the color before using. To ensure color consistency, box paint together in a larger container.**

KELLY-MOORE® PAINTS

Store 1807 – Arlington
2506 So Cooper Arlington, Tx. 76015
(817) 261 – 2524

System: BASF0

UTA/PAINT SHOP
PO#/Job Name:

B 0 Y 10.0000

Date: 11/06/2018

1010 – 121 – 5G

NBC WHITE **NBC WHITE**

CF180728148071

IMPORTANT NOTICE: **Custom tinted colors are non – returnable. Please check the color before using. To ensure color consistency, box paint together in a larger container.**

KELLY-MOORE® PAINTS

Store 1807 – Arlington
2506 So Cooper Arlington, Tx. 76015
(817) 261 – 2524

System: 844

UTA/PAINT SHOP
PO#/Job Name:
DEVLAC 1431 UD 1G
Date: 11/06/2018

LB	5 Y 18.0000
OY	4 Y 36.0000
RO	1 Y 33.0000
TW	0 Y 9.0000

DC7460 **ARCHITECTURAL BROWN**

CF180728148105

IMPORTANT NOTICE: Custom tinted colors are non – returnable. Please check the color before using. To ensure color consistency, box paint together in a larger container.

9626 - ARLINGTON

(817)275-2791

Product: 90-444/01

Invoice : 962602110618065646 11/06/2018

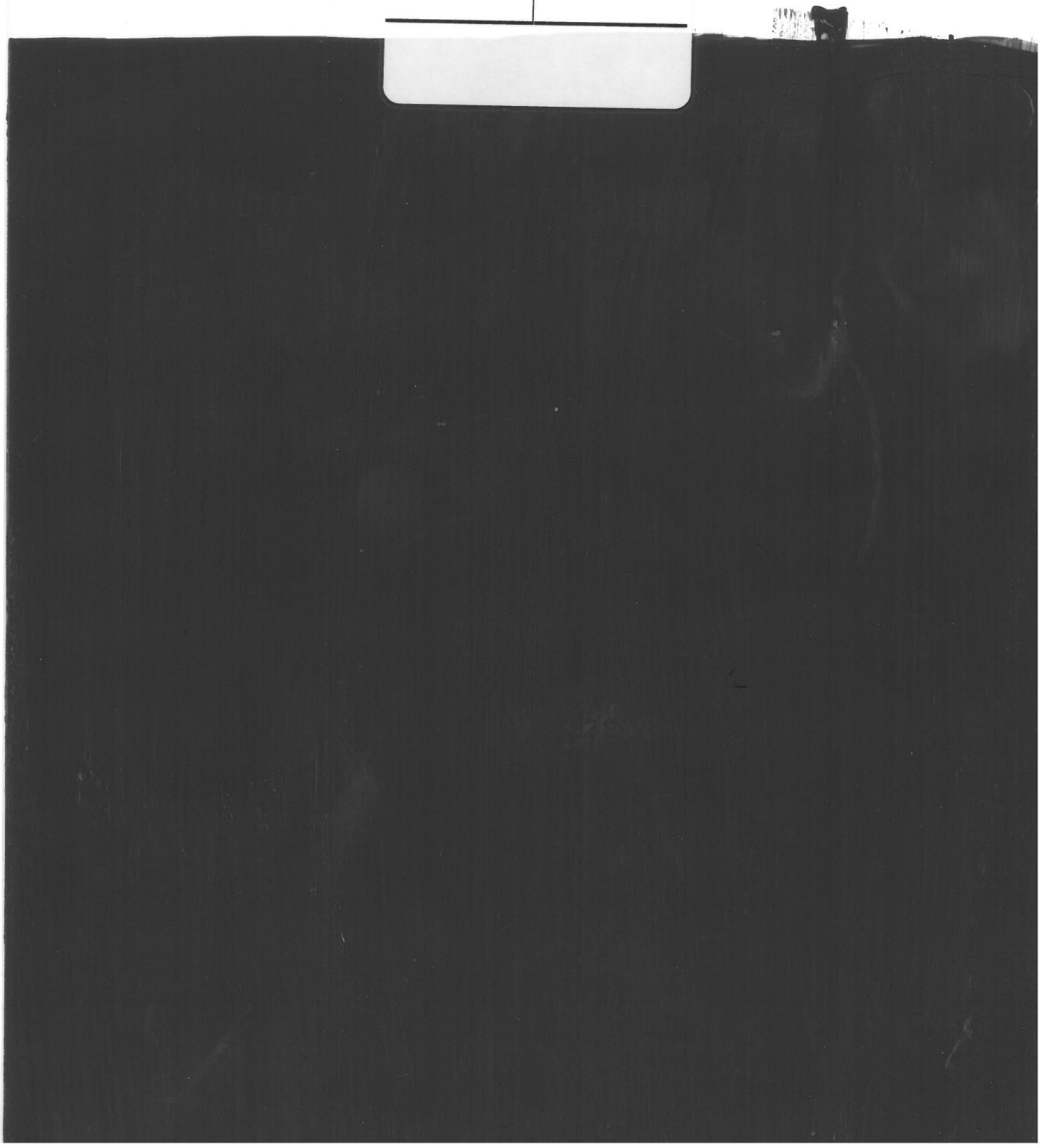
Employee: 332422 2:56 PM

Color Name: BRONZE TONE

Color #: 962603000003226

Version: 0 96_LINE

Customer: U OF TEXAS AT ARLING



PAINT SCHEDULE					
LOCATION	COLOR	DESCRIPTION	MANUFACTURER	MFG. NUMBER	FINISH
WALL	OFF-WHITE	GYP. BD. TOP COAT	KELLY-MOORE	1650 ACRY-PLEX, NEW LINEN #29	SEMI-GLOSS
WALL		GYP. BD. PRIMER	KELLY-MOORE	KEL-BOND 295	
WALL	TAN	GYP. BD. TOP COAT	KELLY-MOORE	1650 ACRY-PLEX, CUSTOM #12-743-1807	SEMI-GLOSS
WALL	ORANGE	ACCENT GYP. BD. TOP COAT	KELLY-MOORE	DEVCRYL 1449 ACRYLIC, UTA LOGO ORANGE #17-1425-1807	SEMI-GLOSS OR GLOSS
WALL	BLUE	ACCENT GYP. BD. TOP COAT	KELLY-MOORE	DEVCRYL 1449 ACRYLIC, UTA LOGO BLUE #17-1423-1807	SEMI-GLOSS OR GLOSS
WALL	NAVY	ACCENT GYP. BD. TOP COAT	KELLY-MOORE	DEVCRYL 1449 ACRYLIC, UTA STADIUM BLUE #18-1057-1807	SEMI-GLOSS OR GLOSS
CEILING	WHITE	GYP. BD. TOP COAT	KELLY-MOORE	1650 ACRY-PLEX, NBC WHITE	FLAT
WALL		CMU PRIMER	KELLY-MOORE	BLOCK FILLER 521	
WALL		EXTERIOR MASONRY PRIMER	KELLY-MOORE	ACRYSHIELD 247	
DOOR & FRAME		INTERIOR HOLLOW METAL DOOR AND FRAME	KELLY-MOORE	DURA-POXY 1680	GLOSS
	BROWN	EXTERIOR METAL	DEVOE HIGH PERFORMANCE COATINGS	DEVGUARD #4308 ARCHITECTURAL BROWN	GLOSS
EXTERIOR	BROWN	EXTERIOR METAL	PPG, PITT-TECH	DTM SATIN INDUSTRIAL ENAMEL #90-444 BRONZE TONE	SATIN
EXTERIOR		EXTERIOR METAL PRIMER	KELLY-MOORE	KEL-GUARD 1710 RED OXIDE	
DOOR & CABINET		INTERIOR WOOD DOOR AND CABINETRY	VALSPAR, MCCLOSKEY MAN O'WAR	MARINE SPAR VARNISH	
WOOD		WOOD PRODUCTS WITH VARNISH	TRINITY OR GEMINI	PRE-CATALYZED LACQUERS AND SEALERS	

KELLY-MOORE PAINTS™

ACRYPLEX

1650 Interior Semi-Gloss Enamel

APPLICATION	COVERAGE	DRY TIME	TEMPERATURE	CLEAN-UP	VOC
Brush/Roll/Spray	250-400 Ft²/G	2-4 Hours	50°F - 100°F	Soapy Water	< 2 g/L

PRODUCT DESCRIPTION

AcryPlex is a family of premium quality interior paints, enamels, and primers designed to provide a luxurious, self-priming finish in a durable 100% acrylic, low VOC formulation. This product is designed for use on walls, trim and ceilings.

- 100% Acrylic Durability
- Self-Priming
- Low Spatter
- Low Odor
- Very Low VOC

PERFECT FOR

- Living Rooms
- Bedrooms
- Offices
- Classrooms

KM SCALE

Application	★★★★☆
Hide	★★★★☆
Touch-Up	★★★★☆
Appearance	★★★★½
Cleanability	★★★★½
Durability	★★★★½

SPECIFICATIONS

RESIN TYPE
100% Acrylic

FINISH
Semi-Gloss 40-55 @ 60°

BASES AVAILABLE
White & Custom Tinted Colors

SIZES AVAILABLE
1 & 5 Gallon Containers

WEIGHT PER GALLON
10.8 ± 0.25 lbs.

SOLIDS BY VOLUME
39% ± 2%

V.O.C.
<2 g/L (per ASTM D6886)

MEETS V.O.C. LIMITS FOR

- CARB
- National AIM
- SCAQMD
- Green Seal GS-11
- LEED V4

SUBSTRATES & SYSTEM RECOMMENDATIONS

PREP

Properly prepare all new or previously painted surfaces.
See 'Surface Preparation' on Page 2 for detailed instructions.

PRIME

Prime surfaces with recommended Kelly Moore primer.

Drywall & Masonry	**1 Coat**	**971 AcryPlex PVA**
Wood & Hardboard	**1 Coat**	**973 AcryPlex Undercoater**
Metal	**1 Coat**	**5725 DTM Primer/Finish**

PREVIOUSLY PAINTED SURFACES
See Pages 2 and 3 for preparation and application instructions.

PAINT

TOPCOAT **2 Coats** **AcryPlex Interior Finish**

BRUSH	ROLL	SPRAY
Synthetic Bristle	3/8" to 3/4" Synthetic Cover	2000-2500 PSI .015"-.019" Orifice Tip

FILM THICKNESS	PRACTICAL COVERAGE	DRYING TIME
4.0 - 6.0 Wet Mils 1.5 - 2.3 Dry Mils	250-400 Ft²/G	@ 75°F & 50% R.H. Touch: 2 Hours Recoat: 4 Hours

SELF-PRIMING
AcryPlex Interior Finishes can be applied as a self-priming coating over previously painted surfaces or new drywall, wood, and masonry.

See Pages 2 and 3 for self-priming specifications and application information.

Ask a local Kelly-Moore representative for additional system recommendations.

KELLY MOORE PAINT COMPANY INC.
987 COMMERCIAL ST. SAN CARLOS, CA 94070
www.kellymoore.com

KELLY-MOORE PAINTS™

ACRYPLEX

1650 Interior Semi-Gloss Enamel

SPECIALTY PRIMER RECOMMENDATIONS

Porous Masonry
521 Prime & Fill Block Filler

Tannin Rich Wood
265 Hybrid Primer

Stain Blocking
295 Kel-Bond Universal Primer

Dense or Glossy Surfaces
287 Kel-Bond Adhesion Plus

Wallboard - Smooth / Level 5 Finish
988 Level 5 Primer

Wallboard - Prior to Texture
95 Pre-Cote Primer

SELF-PRIMING SYSTEM

This product is self-priming over bare drywall, wood and masonry <9 pH. A minimum of 2 coats at 4-6 wet mils are required for touch-up, as well as sheen and color uniformity. A minimum of 4 hours are required between applied coats. Over previously painted surfaces, 1-2 coats applied at 4-6 wet mils may be acceptable. An appropriate primer or sealer is required when a porous substrate, heavy tannins, or stains are present.

SURFACE PREPARATION

GENERAL All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalk, rust, mildew or any other contamination or condition that would adversely affect the performance of the coating. Sand glossy, dense or glazed surfaces.*

NEW SURFACES All surfaces should be sound, free of contamination and dry. Wood surfaces should be sanded free of wood fibers. Wood should have a moisture content of less than 15% as measured by a moisture meter. Masonry and plaster should be thoroughly cured before priming. Masonry should have a moisture content of less than 12% as measured by a moisture meter.

NEW FERROUS METAL Follow general surface preparation guidelines. Remove all loose rust, mill scale, or deteriorated previously applied coatings by Hand Tooling (SSPC-SP-2) or Power Tool Cleaning (SSPC-SP-3).

NEW ALUMINUM & GALVANIZED METAL Wash thoroughly with TSP or other suitable cleaner/degreaser to remove oil and other contaminants. Rinse thoroughly.

PREVIOUSLY PAINTED SURFACES Remove any peeling, chalky or loosely adhering paint, sand to feather edges, dust clean (do not use tack rags). Sand glossy finishes.*

*See WARNING! below for existing leaded paint.

SAFETY INFORMATION

Avoid contact with eyes, skin and clothing. Do not take internally. Wash thoroughly after handling. Close container after each use. For additional safety information consult the Safety Data Sheet for this product.

USE ONLY WITH ADEQUATE VENTILATION **KEEP OUT OF REACH OF CHILDREN**

For proper disposal of excess material, please contact your local city or county waste management agency.

WARNING!

If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1- 800-424-LEAD (5323) or log on to www.epa.gov/lead.

APPLICATION

MIXING Mix well before use. Purchase enough paint to complete your project at the same time. If additional paint is needed, retain some of the original material and intermix the paint before application or touch up.

THINNING Apply at can consistency. If thinning is necessary to maintain workability, do not exceed one-half pint of water per gallon.

DRYING Dry times are based on standard conditions of 75ºF with a relative humidity of 50%. Lower temperatures or higher humidity may extend drying times. Higher temperatures may speed drying time.
Provide adequate ventilation and air movement during and after painting.

TEMPERATURE Do not apply when material, air, and/or surface temperature is outside of the recommendations on page 1. Store at room temperature and protect from freezing.

COVERAGE May vary depending on method of application, porosity and texture of the surface.

NEW SURFACES Prime surfaces following primer recommendations on Page 1 and 2.
Two finish coats will provide a more even color and sheen. It will also help with touch-up and durability.
Backroll while spraying to ensure an even coat. Backrolling the prime coat will fill in porous surfaces. Backrolling the topcoat will reduce pinholes, create uniform sheen, and make for easier touch-up.
Avoid lap marks by maintaining a wet edge at all times. Re-wet your applicator before it starts to run dry; any light spots, when dried, may appear different than heavy spots in both color and sheen. An even coat is your goal.
Lay the paint on and leave it alone. Be sure to give paint an opportunity to flow and level after application.
This product is not intended for use on floors.

PREVIOUSLY PAINTED SURFACES Glossy surfaces should be completely dulled prior to painting.
Spot prime bare and patched areas or prime entire surface with a suitable Kelly-Moore product.
When making a significant color change, a primer is recommended to aid hide and appearance of the finish coating.
Follow application instructions for 'new surfaces' listed above.

STAIN BLOCKING When painting over stains or tannins, an appropriate primer is recommended before top coating. For heavy stains, a second coat of primer may be required. 24 hours are required between all coats.

TEXTURED DRYWALL In a textured drywall system, use an appropriate primer or sealer prior to applying texture. Follow system recommendations from Page 1 when painting over newly textured drywall.

CAULKING When filling voids; prime the surface, then apply paintable patching, acrylic caulking, or siliconized acrylic caulking to the manufacturer's recommendations. Allow the caulking to fully dry, then apply the finish paint.
When sealing voids or joints with expected movement, prime and paint the surface. Allow the paint to fully dry, then apply acrylic or siliconized acrylic caulking. Clear or colored caulking is a good choice for this type of application. Painting over caulking were substrate movement is present may cause cracking of the finish coating.

CONTAINERS AND TOOLS Transfer material into a clean container before use. Use new or thoroughly cleaned tools. To avoid contamination, do not re-dip applicators or add used material into containers being used for storage.

STORAGE Store material in a clean, tightly sealed container free of rollers, brushes, or other outside materials.

TESTING Prior to full application, apply a test patch to ensure the preparation and coating system are appropriate for the project. If test patch results do not meet the needs of the project, contact a Kelly-Moore representative for recommendations.

CURE Architectural coatings require up to 30 days after final application for full cure. Cure times vary depending on environmental conditions and air circulation. Full performance characteristics are achieved when coating has fully cured.

CLEANING Wait at least two weeks after application before attempting to clean or maintain the surface. Use a new soft cotton cloth or sponge with clean water to wipe the surface. If the surface has heavy dirt or stains, a mild detergent may be added to the water for cleaning. Clean tools with warm soapy water.

UPDATED LOW VOC FORMULATION

This product has been recently updated to provide the premium AcryPlex performance at a very low VOC. The batch numbers listed below represent the first production batches to use this formulation. Prior batches qualify as <100 g/L VOC.

1650-121	1650-222	1650-333	1650-555
187030114	177024414	177028119	187029796

LIMITED WARRANTY

The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

KELLY-MOORE PAINTS™

KEL-BOND
295 Interior/Exterior Universal Primer

PRODUCT DESCRIPTION

Kel-Bond Universal Primer is a premium quality interior and exterior acrylic primer for general use on wood, masonry, drywall, and non-ferrous metal surfaces. Designed to block stains, promote adhesion, and develop a uniform topcoat appearance.

FEATURES

- General Purpose for Various Substrates
- Great Adhesion
- Excellent Enamel Holdout
- Resists Tannin Bleed
- Seals in Stains
- Alkali Resistant <13 pH
- Flash Rust Resistant

PERFECT FOR

- Wood
- Masonry
- Drywall
- Galvanized
- Aluminum

SUBSTRATES & SYSTEM RECOMMENDATIONS

PREP

Properly prepare all new or previously painted surfaces.
See 'Surface Preparation' on Page 2 for detailed instructions.

PRIME

PRIME SURFACE 1 Coat 295 Kel-Bond Universal Primer

BRUSH
Synthetic Bristle

ROLL
3/8" to 3/4"
Synthetic Cover

SPRAY
2000-2500 PSI
.015"-.021" Orifice Tip

FILM THICKNESS
4.0 - 6.0 Wet Mils
1.5 - 2.3 Dry Mils

PRACTICAL COVERAGE
250-400 sq ft/gal

DRYING TIME
@ 75°F & 50% R.H.
Touch: 2 Hours
Recoat: 4 Hours

See 'Application' on Pages 2 and 3 for full product specifications and information.

PAINT

TOPCOAT 2 Coats **Preferred Kelly-Moore Finish**

Kelly-Moore offers a wide variety of paints in many sheens for nearly every surface. It is important to choose the correct product for your project.

Follow application instructions found on Pages 2 and 3. Refer to the Technical Data Sheet of selected finish for complete product specifications and information.

Ask a local Kelly-Moore representative for additional system recommendations.

SPECIFICATIONS

RESIN TYPE
100% Acrylic

WEIGHT PER GALLON
10.9 ± 0.25 lbs.

SOLIDS BY VOLUME
38% ± 2%

FINISH
<10 @ 60°

SIZES AVAILABLE
Quarts,
1 & 5 Gallon Containers

BASES AVAILABLE
White

TEMPERATURE
50ºF - 100ºF

CLEAN-UP
Soapy Water

V.O.C.
<50 g/L
(per ASTM D6886)

MEETS THE V.O.C. LIMITS FOR
- CARB
- National AIM
- SCAQMD
- Green Seal GS-11
- LEED V4

KELLY-MOORE PAINT COMPANY INC.
987 COMMERCIAL ST. SAN CARLOS, CA 94070

SURFACE PREPARATION

GENERAL All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalk, rust, mildew or any other contamination or condition that would adversely affect the performance of the coating. Sand glossy, dense or glazed surfaces.*

NEW SURFACES All surfaces should be sound, free of contamination and dry. Wood surfaces should be sanded free of wood fibers. Wood should have a moisture content of less than 15% as measured by a moisture meter. Masonry and plaster should be thoroughly cured before priming. Masonry should have a moisture content of less than 12% as measured by a moisture meter.

NEW ALUMINUM & GALVANIZED METAL Wash thoroughly with TSP or other suitable cleaner/degreaser to remove oil and other contaminants. Rinse thoroughly.

PREVIOUSLY PAINTED SURFACES Remove any peeling, chalky or loosely adhering paint, sand to feather edges, dust clean (do not use tack rags). Sand glossy finishes.*

*See WARNING! below for existing leaded paint.

SAFETY INFORMATION

Avoid contact with eyes, skin and clothing. Do not take internally. Wash thoroughly after handling. Close container after each use. For additional safety information consult the Safety Data Sheet for this product.

USE ONLY WITH ADEQUATE VENTILATION **KEEP OUT OF REACH OF CHILDREN**

For proper disposal of excess material, please contact your local city or county waste management agency.

WARNING!

If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1- 800-424-LEAD (5323) or log on to www.epa.gov/lead.

APPLICATION

MIXING Mix well before use. Purchase enough paint to complete your project at the same time. If additional paint is needed, retain some of the original material and intermix the paint before application or touch up.

THINNING Apply at can consistency. If thinning is necessary to maintain workability, do not exceed one-half pint of water per gallon.

DRYING Dry times are based on standard conditions of 75ºF with a relative humidity of 50%. Lower temperatures or higher humidity may extend drying times. Higher temperatures may speed drying time.
Provide adequate ventilation and air movement during and after painting.

TEMPERATURE Do not apply when material, air, and/or surface temperature is outside of the recommendations on page 1. Store at room temperature and protect from freezing.

COVERAGE May vary depending on method of application, porosity and texture of the surface.

Continue onto Page 3

APPLICATION (CONTINUED)

NEW SURFACES Prime surfaces following primer recommendations on Page 1 and 2.
Two finish coats will provide a more even color and sheen. It will also help with touch-up and durability.
Backroll while spraying to ensure an even coat. Backrolling the prime coat will fill in porous surfaces. Backrolling the topcoat will reduce pinholes, create uniform sheen, and make for easier touch-up.
Avoid lap marks by maintaining a wet edge at all times. Re-wet your applicator before it starts to run dry; any light spots, when dried, may appear different than heavy spots in both color and sheen. An even coat is your goal.
Lay the paint on and leave it alone. Be sure to give paint an opportunity to flow and level after application.
This product is not intended for use on floors.

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Spot prime bare and patched areas or prime entire surface with a suitable Kelly-Moore product.
When making a significant color change, a primer is recommended to aid hide and appearance of the finish coating.
Follow application instructions for 'new surfaces' listed above.

STAIN BLOCKING When painting over stains or tannins, an appropriate primer is recommended before top coating. For heavy stains, a second coat of primer may be required. 24 hours are required between all coats.

TEXTURED DRYWALL In a textured drywall system,use an appropriate primer or sealer prior to applying texture. Follow system recommendations from Page 1 when painting over newly textured drywall.

FIBER CEMENT BOARD Follow primer recommendations on Page 1. A minimum of two finish coats at 4-6 wet mils are required over factory prime for sheen uniformity and touch up. Backroll spray applied topcoats.

CAULKING When filling voids, prime the surface then apply paintable patching, acrylic caulking, or siliconized acrylic caulking to the manufacturer's recommendations. Allow the caulking to fully dry, then apply the finish paint.
When sealing voids or joints with expected movement, prime and paint the surface. Allow the paint to fully dry, then apply acrylic or siliconized acrylic caulking. Clear or colored caulking is a good choice for this type of application. Painting over caulking were substrate movement is present may cause cracking of the finish coating.

CONTAINERS AND TOOLS Transfer material into a clean container before use. Use new or thoroughly cleaned tools. To avoid contamination, do not re-dip applicators or add used material into containers being used for storage.

STORAGE Store material in a clean, tightly sealed container free of rollers, brushes, or other outside materials.

TESTING Prior to full application, apply a test patch to ensure the preparation and coating system are appropriate for the project. If test patch results do not meet the needs of the project, contact a Kelly-Moore representative for recommendations.

CURE Architectural coatings require up to 30 days after final application for full cure. Cure times vary depending on environmental conditions and air circulation. Full performance characteristics are achieved when coating has fully cured.

CLEANING Wait at least two weeks after application before attempting to clean or maintain the surface. Use a new soft cotton cloth or sponge with clean water to wipe the surface. If the surface has heavy dirt or stains, a mild detergent may be added to the water for cleaning. Clean tools with warm soapy water.

LIMITED WARRANTY

The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

Devcryl® 1449

Water Borne Acrylic

PRODUCT DESCRIPTION

A premium quality, low VOC, direct-to-metal acrylic gloss enamel for high traffic interior or exterior areas of commercial, institutional and industrial structures.

INTENDED USES

Primarily designed as a durable finish coat for use over water borne primers and intermediates where colour and gloss retention are important.

Can be applied directly to interior or exterior steel and aluminium; also to properly primed galvanised metal, wood or masonry surfaces. May also be used over some solvent based primers and intermediates.

For exposure in a wide variety of environments, including offshore structures, bridges, refineries, petrochemical and chemical plants.

PRACTICAL INFORMATION FOR DEVCRYL 1449

Colour	Range of colours via the Chromascan system
Gloss Level	Gloss
Volume Solids	38% ± 2% (depends on colour)
Typical Thickness	38-100 microns (1.5-4 mils) dry equivalent to 100-263 microns (4-10.5 mils) wet
Theoretical Coverage	5.43 m²/litre at 70 microns d.f.t and stated volume solids 218 sq.ft/US gallon at 2.8 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Air Spray, Brush, Roller

Drying Time

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
10°C (50°F)	1 hour	6 hours	6 hours	Extended[1]
15°C (59°F)	1 hour	5 hours	5 hours	Extended[1]
25°C (77°F)	30 minutes	4 hours	4 hours	Extended[1]
40°C (104°F)	15 minutes	3 hours	3 hours	Extended[1]

[1] See International Protective Coatings Definitions and Abbreviations

Drying times are dependent upon ambient conditions. The figures quoted above have been determined at the quoted temperature and 50% relative humidity.

REGULATORY DATA

Flash Point (Typical)	101°C (214°F)
Product Weight	1.24 kg/l (10.3 lb/gal)
VOC	0.81 lb/gal (98 g/lt) EPA Method 24

See Product Characteristics section for further details

Devcryl® 1449

Water Borne Acrylic

SURFACE PREPARATION

All surfaces should be clean, dry and free from contaminants including, but not limited to curing compounds, release agents, trowelling compounds, surface hardeners, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and precast concrete must also be sweep blasted.

New Surfaces:

Steel and Aluminium
Best results are obtained over a surface abrasive blasted to commercial blast cleanliness (SSPC-SP6) or ISO 8501-1:2007 Sa2½. Performance over hand or power tool cleaned surfaces is dependent on the degree of cleaning. When using colours tinted with more than 2 oz /gal. of suitable colourants, a primer is recommended. When using as a DTM finish without a primer, a minimum of two coats is recommended for best corrosion resistance.

Galvanized Metal:
Ensure that surfaces are clean, dry and free of contamination or white zinc salts. This may require scrubbing with fresh water.

Concrete, Plaster and Masonry:
Cure for at least 30 days before painting. pH must be 10.0 or lower. Roughen slick poured or pre-cast concrete and remove sealers by chemical cleaning or abrasive blasting. Rinse thoroughly with water and allow to dry. Remove loose aggregate.

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.		
Airless Spray	Recommended	Tip Range 0.38-0.53 mm (15-21 thou) Total output fluid pressure at spray tip not less than 126 kg/cm² (1792 p.s.i.)	
Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E
Brush	Suitable	Typically 30-50 microns (1.2-2.0 mils) can be achieved	
Roller	Suitable	Typically 30-50 microns (1.2-2.0 mils) can be achieved	
Thinner	Clean Water		
Cleaner	Clean Water		

Work Stoppages

Thoroughly flush all equipment with water. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered prior to use.

Clean Up

Clean all equipment immediately after use with water. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency should depend upon amount sprayed, temperature and elapsed time, including any delays.

All surplus material and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

Devcryl® 1449

Water Borne Acrylic

PRODUCT CHARACTERISTICS

Advantages:

- Alkyd-like hardness and durability
- Excellent colour retention
- High opacity
- Non-yellowing
- All purpose finish for multiple surfaces
- Excellent resistance to grease, oil and water
- Excellent flow and levelling
- Resists peeling and chipping
- Low odour and water clean-up
- Washable and scrubbable
- Good abrasion resistance
- Easy application by brush, roll or spray
- Low VOC, < 100 g/l

Apply by air or airless spray. Thoroughly flush equipment with water or alcohol prior to use. To obtain maximum edge protection and film build, airless or air spray application is recommended. Application by other methods, e.g. brush or roller, may require more than one coat.

As with all water borne coatings careful control of application conditions is required to ensure good performance. The following basic parameters must be adhered to:

Devcryl 1449 must be protected from freezing at all times during storage. The minimum steel temperature for application must be above 10°C (50°F), and be at least 3°C (5°F) above dew point. The relative humidity should be lower than 70% otherwise drying and overcoating times will be severely extended. Good airflow is essential around the object being painted [minimum air speed 0.1m/sec (4 inches/sec)]. Minor areas which are difficult to ventilate should be brush applied to prevent over-application. Application below the minimum film forming temperature (M.F.F.T.) of the coating and/or poo ventilation will result in poor film coalescence and a powdery cracked film which will require removal and re-application.

Level of sheen and surface finish are dependent on application method. Avoid using a mixture of application methods whenever possible. For brush and roller application, and in some colours, two coats of Devcryl 1449 may be required to give uniform coverage.

Tinting: Tint with waterborne colourants.

Devcryl 1449 must be fully hardened before exposing to ponding water otherwise adhesion loss can occur.

Although Devcryl 1449 is slightly thermoplastic above 50°C (120°F) the polymer system is stable to continuous temperatures of 150°C (300°F) with intermittent temperatures of 200°C (390°F).

Not recommended for large areas of exterior wood such as wood siding.

Meets OTC (Industrial Maintenance) Regulations
Meets SCAQMD (Industrial Maintenance) Regulations

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

This product is primarily designed for use as a finish over water based priming systems such as:

Devcryl 1440
Devprime 1403
Devprime 1405
Devprime 1407

However, it is also suitable for application to a number of epoxy primers.

Devran 201H
Devran 203
Tru-Glaze-WB 4030

For other suitable primers/topcoats, consult International Protective Coatings.

See relevant product data sheet for details.

ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Vol	Pack
	1 US gal	1 US gal	1 US gal
	5 US gal	5 US gal	5 US gal
	For availability of other pack sizes, contact International Protective Coatings.		
SHIPPING WEIGHT (TYPICAL)	Unit Size		
	1 US gal	11.2 lb	
	5 US gal	55.5 lb	
STORAGE	Shelf Life	18 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	

Important Note

www.international-pc.com

KELLY-MOORE PAINTS™

PRIME & FILL

521 Interior/Exterior Block Filler

PRODUCT DESCRIPTION

Prime & Fill is a high quality interior and exterior primer designed with a heavy body to fill porous masonry and create a smooth surface.

FEATURES
- Heavy Bodied
- High Build
- Uniforms Porous Surfaces
- Alkali Resistant <13 pH

PERFECT FOR
- Masonry
- Brick
- Concrete Block
- Poured Concrete

SUBSTRATES & SYSTEM RECOMMENDATIONS

PREP

Properly prepare all new or previously painted surfaces.
See 'Surface Preparation' on Page 2 for detailed instructions.

PRIME

PRIME SURFACE 1 Coat 521 Prime & Fill Block Filler

BRUSH
Synthetic Bristle

ROLL
3/8" to 3/4"
Synthetic Cover

SPRAY
2000-2500 PSI
.015"-.021" Orifice Tip

FILM THICKNESS
16.0 - 20.0 Wet Mils
9.3 - 11.6 Dry Mils

PRACTICAL COVERAGE
80 - 100 sq ft/gal

DRYING TIME
@ 75°F & 50% R.H.
Touch: 2 Hours
Recoat: 4 Hours

See 'Application' on Pages 2 and 3 for full product specifications and information.

PAINT

TOPCOAT 2 Coats Preferred Kelly-Moore Finish

Kelly-Moore offers a wide variety of paints in many sheens for nearly every surface. It is important to choose the correct product for your project.

Follow application instructions found on Pages 2 and 3. Refer to the Technical Data Sheet of selected finish for complete product specifications and information.

Ask a local Kelly-Moore representative for additional system recommendations.

SPECIFICATIONS

RESIN TYPE
100% Acrylic

WEIGHT PER GALLON
14.1 ± 0.25 lbs.

SOLIDS BY VOLUME
58% ± 2%

FINISH
<10 @ 60°

SIZES AVAILABLE
5 Gallon Containers

BASES AVAILABLE
White

TEMPERATURE
50ºF - 100ºF

CLEAN-UP
Soapy Water

V.O.C.
<50 g/L
(per ASTM D6886)

MEETS THE V.O.C. LIMITS FOR
- CARB
- National AIM
- SCAQMD
- Green Seal GS-11
- LEED V4

KELLY-MOORE PAINT COMPANY INC.
987 COMMERCIAL ST. SAN CARLOS, CA 94070

KELLY-MOORE PAINTS™

PRIME & FILL

521 Interior/Exterior Block Filler

SURFACE PREPARATION

GENERAL All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalk, rust, mildew or any other contamination or condition that would adversely affect the performance of the coating. Sand glossy, dense or glazed surfaces.*

NEW SURFACES All surfaces should be sound, free of contamination and dry. Masonry should have a moisture content of less than 12% as measured by a moisture meter.

PREVIOUSLY PAINTED SURFACES Remove any peeling, chalky or loosely adhering paint, sand to feather edges, dust clean (do not use tack rags). Sand glossy finishes.*

*See WARNING! below for existing leaded paint.

SAFETY INFORMATION

Avoid contact with eyes, skin and clothing. Do not take internally. Wash thoroughly after handling. Close container after each use. For additional safety information consult the Safety Data Sheet for this product.

USE ONLY WITH ADEQUATE VENTILATION **KEEP OUT OF REACH OF CHILDREN**

For proper disposal of excess material, please contact your local city or county waste management agency.

WARNING!

If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1- 800-424-LEAD (5323) or log on to www.epa.gov/lead.

APPLICATION

MIXING Mix well before use. Purchase enough paint to complete your project at the same time. If additional paint is needed, retain some of the original material and intermix the paint before application or touch up.

THINNING Apply at can consistency. If thinning is necessary to maintain workability, do not exceed one-half pint of water per gallon.

DRYING Dry times are based on standard conditions of 75ºF with a relative humidity of 50%. Lower temperatures or higher humidity may extend drying times. Higher temperatures may speed drying time.
Provide adequate ventilation and air movement during and after painting.

TEMPERATURE Do not apply when material, air, and/or surface temperature is outside of the recommendations on page 1. Store at room temperature and protect from freezing.

COVERAGE May vary depending on method of application, porosity and texture of the surface.

NEW SURFACES Prime surfaces following primer recommendations on Page 1 and 2.
Two finish coats will provide a more even color and sheen. It will also help with touch-up and durability.
Backroll while spraying to ensure an even coat. Backrolling the prime coat will fill in porous surfaces. Backrolling the topcoat will reduce pinholes, create uniform sheen, and make for easier touch-up.
Avoid lap marks by maintaining a wet edge at all times. Re-wet your applicator before it starts to run dry; any light spots, when dried, may appear different than heavy spots in both color and sheen. An even coat is your goal.
Lay the paint on and leave it alone. Be sure to give paint an opportunity to flow and level after application.
This product is not intended for use on floors.

Continue onto Page 3

APPLICATION (CONTINUED)

PREVIOUSLY PAINTED SURFACES Glossy surfaces should be completely dulled prior to painting.
Spot prime bare and patched areas or prime entire surface with a suitable Kelly-Moore product.
When making a significant color change, a primer is recommended to aid hide and appearance of the finish coating.
Follow application instructions for 'new surfaces' listed above.

STAIN BLOCKING When painting over stains or tannins, an appropriate primer is recommended before top coating. For heavy stains, a second coat of primer may be required. 24 hours are required between all coats.

CAULKING When filling voids, prime the surface then apply paintable patching, acrylic caulking, or siliconized acrylic caulking to the manufacturer's recommendations. Allow the caulking to fully dry, then apply the finish paint.
When sealing voids or joints with expected movement, prime and paint the surface. Allow the paint to fully dry, then apply acrylic or siliconized acrylic caulking. Clear or colored caulking is a good choice for this type of application. Painting over caulking were substrate movement is present may cause cracking of the finish coating.

CONTAINERS AND TOOLS Transfer material into a clean container before use. Use new or thoroughly cleaned tools. To avoid contamination, do not re-dip applicators or add used material into containers being used for storage.

STORAGE Store material in a clean, tightly sealed container free of rollers, brushes, or other outside materials.

TESTING Prior to full application, apply a test patch to ensure the preparation and coating system are appropriate for the project. If test patch results do not meet the needs of the project, contact a Kelly-Moore representative for recommendations.

CURE Architectural coatings require up to 30 days after final application for full cure. Cure times vary depending on environmental conditions and air circulation. Full performance characteristics are achieved when coating has fully cured.

CLEANING Wait at least two weeks after application before attempting to clean or maintain the surface. Use a new soft cotton cloth or sponge with clean water to wipe the surface. If the surface has heavy dirt or stains, a mild detergent may be added to the water for cleaning. Clean tools with warm soapy water.

LIMITED WARRANTY

The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

KELLY-MOORE PAINTS™

ACRYSHIELD
247 Exterior Masonry Primer

PRODUCT DESCRIPTION

AcryShield Masonry Primer is a premium quality acrylic primer designed with excellent adhesion and alkali resistance of <13 pH on concrete, masonry, stucco and fiber cement board.

FEATURES
- Sealer for New Masonry
- 100% Acrylic
- Excellent Adhesion
- Alkali Resistant <13 pH

PERFECT FOR
- Concrete
- Masonry
- Stucco
- Fiber Board

SUBSTRATES & SYSTEM RECOMMENDATIONS

PREP

Properly prepare all new or previously painted surfaces.
See 'Surface Preparation' on Page 2 for detailed instructions.

PRIME

PRIME SURFACE 1 Coat 247 AcryShield Masonry Primer

BRUSH
Synthetic Bristle

ROLL
3/8" to 3/4"
Synthetic Cover

SPRAY
2000-2500 PSI
.015"-.021" Orifice Tip

FILM THICKNESS
4.0 - 6.0 Wet Mils
1.3 - 2.0 Dry Mils

PRACTICAL COVERAGE
250-400 sq ft/gal

DRYING TIME
@ 75°F & 50% R.H.
Touch: 2 Hours
Recoat: 4 Hours

See 'Application' on Pages 2 and 3 for full product specifications and information.

PAINT

TOPCOAT 2 Coats Preferred Kelly-Moore Finish

Kelly-Moore offers a wide variety of paints in many sheens for nearly every surface. It is important to choose the correct product for your project.

Follow application instructions found on Pages 2 and 3. Refer to the Technical Data Sheet of selected finish for complete product specifications and information.

Ask a local Kelly-Moore representative for additional system recommendations.

SPECIFICATIONS

RESIN TYPE
100% Acrylic

WEIGHT PER GALLON
9.7 ± 0.25 lbs.

SOLIDS BY VOLUME
33% ± 2%

FINISH
<5 @ 60°

SIZES AVAILABLE
1 & 5 Gallon Containers

BASES AVAILABLE
White

TEMPERATURE
35ºF - 100ºF

CLEAN-UP
Soapy Water

V.O.C.
<50 g/L
(per ASTM D6886)

MEETS THE V.O.C. LIMITS FOR
- CARB
- National AIM
- SCAQMD
- Green Seal GS-11
- LEED V4

KELLY-MOORE PAINT COMPANY INC.
987 COMMERCIAL ST. SAN CARLOS, CA 94070

SURFACE PREPARATION

GENERAL All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalk, rust, mildew or any other contamination or condition that would adversely affect the performance of the coating. Sand glossy, dense or glazed surfaces.*

NEW SURFACES All surfaces should be sound, free of contamination and dry. Masonry and plaster should be thoroughly cured before priming. Masonry should have a moisture content of less than 12% as measured by a moisture meter.

PREVIOUSLY PAINTED SURFACES Remove any peeling, chalky or loosely adhering paint, sand to feather edges, dust clean (do not use tack rags). Sand glossy finishes.*

*See WARNING! below for existing leaded paint.

SAFETY INFORMATION

Avoid contact with eyes, skin and clothing. Do not take internally. Wash thoroughly after handling. Close container after each use. For additional safety information consult the Safety Data Sheet for this product.

USE ONLY WITH ADEQUATE VENTILATION **KEEP OUT OF REACH OF CHILDREN**

For proper disposal of excess material, please contact your local city or county waste management agency.

WARNING!

If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1- 800-424-LEAD (5323) or log on to www.epa.gov/lead.

APPLICATION

MIXING Mix well before use. Purchase enough paint to complete your project at the same time. If additional paint is needed, retain some of the original material and intermix the paint before application or touch up.

THINNING Apply at can consistency. If thinning is necessary to maintain workability, do not exceed one-half pint of water per gallon.

DRYING Dry times are based on standard conditions of 75ºF with a relative humidity of 50%. Lower temperatures or higher humidity may extend drying times. Higher temperatures may speed drying time.
Provide adequate ventilation and air movement during and after painting.

TEMPERATURE Do not apply when material, air, and/or surface temperature is outside of the recommendations on page 1. Store at room temperature and protect from freezing.

COVERAGE May vary depending on method of application, porosity and texture of the surface.

NEW SURFACES Prime surfaces following primer recommendations on Page 1 and 2.
Two finish coats will provide a more even color and sheen. It will also help with touch-up and durability.
Backroll while spraying to ensure an even coat. Backrolling the prime coat will fill in porous surfaces. Backrolling the topcoat will reduce pinholes, create uniform sheen, and make for easier touch-up.
Avoid lap marks by maintaining a wet edge at all times. Re-wet your applicator before it starts to run dry; any light spots, when dried, may appear different than heavy spots in both color and sheen. An even coat is your goal.
Lay the paint on and leave it alone. Be sure to give paint an opportunity to flow and level after application. This product is not intended for use on floors.

Continue onto Page 3

APPLICATION (CONTINUED)

PREVIOUSLY PAINTED SURFACES Glossy surfaces should be completely dulled prior to painting.
Spot prime bare and patched areas or prime entire surface with a suitable Kelly-Moore product.
When making a significant color change, a primer is recommended to aid hide and appearance of the finish coating.
Follow application instructions for 'new surfaces' listed above.

STAIN BLOCKING When painting over stains or tannins, an appropriate primer is recommended before top coating. For heavy stains, a second coat of primer may be required. 24 hours are required between all coats.

FIBER CEMENT BOARD Follow primer recommendations on Page 1. A minimum of two finish coats at 4-6 wet mils are required over factory prime for sheen uniformity and touch up. Backroll spray applied topcoats.

CAULKING When filling voids, prime the surface then apply paintable patching, acrylic caulking, or siliconized acrylic caulking to the manufacturer's recommendations. Allow the caulking to fully dry, then apply the finish paint.
When sealing voids or joints with expected movement, prime and paint the surface. Allow the paint to fully dry, then apply acrylic or siliconized acrylic caulking. Clear or colored caulking is a good choice for this type of application. Painting over caulking were substrate movement is present may cause cracking of the finish coating.

CONTAINERS AND TOOLS Transfer material into a clean container before use. Use new or thoroughly cleaned tools. To avoid contamination, do not re-dip applicators or add used material into containers being used for storage.

STORAGE Store material in a clean, tightly sealed container free of rollers, brushes, or other outside materials.

TESTING Prior to full application, apply a test patch to ensure the preparation and coating system are appropriate for the project. If test patch results do not meet the needs of the project, contact a Kelly-Moore representative for recommendations.

CURE Architectural coatings require up to 30 days after final application for full cure. Cure times vary depending on environmental conditions and air circulation. Full performance characteristics are achieved when coating has fully cured.

CLEANING Wait at least two weeks after application before attempting to clean or maintain the surface. Use a new soft cotton cloth or sponge with clean water to wipe the surface. If the surface has heavy dirt or stains, a mild detergent may be added to the water for cleaning. Clean tools with warm soapy water.

LIMITED WARRANTY

The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

KELLY-MOORE PAINTS™

DuraPoxy
1680 Interior Gloss Enamel

APPLICATION	COVERAGE	DRY TIME	TEMPERATURE	CLEAN-UP	VOC
Brush/Roll/Spray	250-400 Ft²/G	2-4 Hours	50°F - 100°F	Soapy Water	< 50 g/L

PRODUCT DESCRIPTION

DuraPoxy is a line of super-premium 100% acrylic interior enamels. It has been created with a stain and mildew resistant formula that can hold up to repeated washing. This product is designed for use on trim and accents where a durable and washable epoxy-like finish is desired.

- 100% Acrylic Formula
- Washable Finish
- Stain Resistant
- Mildew Resistant
- Self-Priming

PERFECT FOR
- High Traffic Areas
- Hallways
- Kitchens
- Bathrooms

KM SCALE

Application	★★★★½
Hide	★★★★½
Touch-Up	★★★★½
Appearance	★★★★★
Cleanability	★★★★★
Durability	★★★★★

SPECIFICATIONS

RESIN TYPE
100%

FINISH
Gloss 65+ @ 60°

BASES AVAILABLE
White & Custom Tinted Colors

SIZES AVAILABLE
Quarts & One Gallon Containers

WEIGHT PER GALLON
10.6 ± 0.25 lbs.

SOLIDS BY VOLUME
40% ± 2%

V.O.C.
<50 g/L (per ASTM D6886)

MEETS V.O.C. LIMITS FOR
- CARB
- National AIM
- SCAQMD
- Green Seal GS-11
- LEED V4

SUBSTRATES & SYSTEM RECOMMENDATIONS

PREP

Properly prepare all new or previously painted surfaces.
See 'Surface Preparation' on Page 2 for detailed instructions.

PRIME

Prime surfaces with recommended Kelly Moore primer.

Drywall & Masonry	**1 Coat**	**971 AcryPlex PVA**
Wood & Hardboard	**1 Coat**	**973 AcryPlex Undercoater**
Metal	**1 Coat**	**5725 DTM Primer/Finish**

PREVIOUSLY PAINTED SURFACES
See Pages 2 and 3 for preparation and application instructions.

PAINT

TOPCOAT **2 Coats** **DuraPoxy Interior Finish**

BRUSH	ROLL	SPRAY
Synthetic Bristle	3/8" to 3/4" Synthetic Cover	2000-2500 PSI .013"-.019" Orifice Tip

FILM THICKNESS	PRACTICAL COVERAGE	DRYING TIME
4.0 - 6.0 Wet Mils 1.5 - 2.3 Dry Mils	250-400 Ft²/G	@ 75°F & 50% R.H. Touch: 2 Hours Recoat: 4 Hours

SELF-PRIMING
DuraPoxy Interior Finishes can be applied as a self-priming coating over previously painted surfaces or new drywall, wood, and masonry.

See Pages 2 and 3 for self-priming specifications and application

Ask a local Kelly-Moore representative for additional system recommendations.

KELLY-MOORE PAINT COMPANY INC.
987 COMMERCIAL ST. SAN CARLOS, CA 94070

SPECIALTY PRIMER RECOMMENDATIONS

Porous Masonry
521 Prime & Fill Block Filler

Tannin Rich Wood
265 Hybrid Primer

Stain Blocking
295 Kel-Bond Universal Primer

Dense or Glossy Surfaces
287 Kel-Bond Adhesion Plus

Rough or Uneven Surfaces
285 Kel-Bond Ultra

Chalky Surfaces
98 Multi-Seal

SELF-PRIMING SYSTEM

This product is self-priming over bare drywall, wood and masonry <9 pH. A minimum of 2 coats at 4-6 wet mils are required for touch-up, as well as sheen and color uniformity. A minimum of 4 hours are required between applied coats. Over previously painted surfaces, 1-2 coats applied at 4-6 wet mils may be acceptable. An appropriate primer or sealer is required when a porous substrate, heavy tannins, or stains are present.

SURFACE PREPARATION

GENERAL All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalk, rust, mildew or any other contamination or condition that would adversely affect the performance of the coating. Sand glossy, dense or glazed surfaces.*

NEW SURFACES All surfaces should be sound, free of contamination and dry. Wood surfaces should be sanded free of wood fibers. Wood should have a moisture content of less than 15% as measured by a moisture meter. Masonry and plaster should be thoroughly cured before priming. Masonry should have a moisture content of less than 12% as measured by a moisture meter.

NEW FERROUS METAL Follow general surface preparation guidelines. Remove all loose rust, mill scale, or deteriorated previously applied coatings by Hand Tooling (SSPC-SP-2) or Power Tool Cleaning (SSPC-SP-3).

NEW ALUMINUM & GALVANIZED METAL Wash thoroughly with TSP or other suitable cleaner/degreaser to remove oil and other contaminants. Rinse thoroughly.

PREVIOUSLY PAINTED SURFACES Remove any peeling, chalky or loosely adhering paint, sand to feather edges, dust clean (do not use tack rags). Sand glossy finishes.*

*See WARNING! below for existing leaded paint.

SAFETY INFORMATION

Avoid contact with eyes, skin and clothing. Do not take internally. Wash thoroughly after handling. Close container after each use. For additional safety information consult the Safety Data Sheet for this product.

USE ONLY WITH ADEQUATE VENTILATION **KEEP OUT OF REACH OF CHILDREN**

For proper disposal of excess material, please contact your local city or county waste management agency.

WARNING!

If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1- 800-424-LEAD (5323) or log on to www.epa.gov/lead.

APPLICATION

MIXING Mix well before use. Purchase enough paint to complete your project at the same time. If additional paint is needed, retain some of the original material and intermix the paint before application or touch up.

THINNING Apply at can consistency. If thinning is necessary to maintain workability, do not exceed one-half pint of water per gallon.

DRYING Dry times are based on standard conditions of 75ºF with a relative humidity of 50%. Lower temperatures or higher humidity may extend drying times. Higher temperatures may speed drying time.
Provide adequate ventilation and air movement during and after painting.

TEMPERATURE Do not apply when material, air, and/or surface temperature is outside of the recommendations on page 1. Store at room temperature and protect from freezing.

COVERAGE May vary depending on method of application, porosity and texture of the surface.

NEW SURFACES Prime surfaces following primer recommendations on Page 1 and 2.
Two finish coats will provide a more even color and sheen. It will also help with touch-up and durability.
Backroll while spraying to ensure an even coat. Backrolling the prime coat will fill in porous surfaces. Backrolling the topcoat will reduce pinholes, create uniform sheen, and make for easier touch-up.
Avoid lap marks by maintaining a wet edge at all times. Re-wet your applicator before it starts to run dry; any light spots, when dried, may appear different than heavy spots in both color and sheen. An even coat is your goal.
Lay the paint on and leave it alone. Be sure to give paint an opportunity to flow and level after application.
This product is not intended for use on floors.

PREVIOUSLY PAINTED SURFACES Glossy surfaces should be completely dulled prior to painting.
Spot prime bare and patched areas or prime entire surface with a suitable Kelly-Moore product.
When making a significant color change, a primer is recommended to aid hide and appearance of the finish coating.
Follow application instructions for 'new surfaces' listed above.

STAIN BLOCKING When painting over stains or tannins, an appropriate primer is recommended before top coating. For heavy stains, a second coat of primer may be required. 24 hours are required between all coats.

TEXTURED DRYWALL In a textured drywall system, use an appropriate primer or sealer prior to applying texture. Follow system recommendations from Page 1 when painting over newly textured drywall.

CAULKING When filling voids; prime the surface, then apply paintable patching, acrylic caulking, or siliconized acrylic caulking to the manufacturer's recommendations. Allow the caulking to fully dry, then apply the finish paint.
When sealing voids or joints with expected movement, prime and paint the surface. Allow the paint to fully dry, then apply acrylic or siliconized acrylic caulking. Clear or colored caulking is a good choice for this type of application. Painting over caulking were substrate movement is present may cause cracking of the finish coating.

CONTAINERS AND TOOLS Transfer material into a clean container before use. Use new or thoroughly cleaned tools. To avoid contamination, do not re-dip applicators or add used material into containers being used for storage.

STORAGE Store material in a clean, tightly sealed container free of rollers, brushes, or other outside materials.

TESTING Prior to full application, apply a test patch to ensure the preparation and coating system are appropriate for the project. If test patch results do not meet the needs of the project, contact a Kelly-Moore representative for recommendations.

CURE Architectural coatings require up to 30 days after final application for full cure. Cure times vary depending on environmental conditions and air circulation. Full performance characteristics are achieved when coating has fully cured.

CLEANING Wait at least two weeks after application before attempting to clean or maintain the surface. Use a new soft cotton cloth or sponge with clean water to wipe the surface. If the surface has heavy dirt or stains, a mild detergent may be added to the water for cleaning. Clean tools with warm soapy water.

LIMITED WARRANTY

The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

Devguard® 4308

Alkyd

PRODUCT DESCRIPTION

A premium quality alkyd gloss enamel for use on machinery, equipment, piping and tank exteriors.

INTENDED USES

Toughness and fast dry provide maintenance with minimum plant interruption.

Ideal for safety equipment and pipe identification. Provides excellent protection to metal surfaces as well as masonry, wood and wallboard. Also used as a trim enamel.

Performance alternate for Federal Specifications TT-E-489H, TT-P-61E, TT-E-506K, and TT-E-505A.

PRACTICAL INFORMATION FOR DEVGUARD 4308

Color	White, custom and ready-mix colors
Gloss Level	Gloss
Volume Solids	45%
Typical Thickness	2-2.5 mils (50-63 microns) dry equivalent to 4.4-5.6 mils (111-140 microns) wet
Theoretical Coverage	317 sq.ft/US gallon at 2.3 mils d.f.t and stated volume solids 7.90 m²/liter at 57 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless spray, Air spray, Brush, Roller

Drying Time

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
77°F (25°C)	1 hour	6 hours	16 hours	Extended[1]

[1] See International Protective Coatings Definitions & Abbreviations

REGULATORY DATA

Flash Point	106°F (41°C)
Product Weight	9.3 lb/gal (1.12 kg/l)
VOC	3.57 lb/gal (428 g/lt) EPA Method 24

See Product Characteristics section for further details

SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease, form release agents, curing compounds, laitance, other foreign matter and be structurally sound. Remove all loose paint, mortar spatter, mill scale, and rust.

New Surfaces:
Steel - Apply over surface suitably prepared and primed with Devguard 4160 or Devguard 4360 primers.

Galvanized Metal and Aluminum:
Ensure that the surface is thoroughly clean and dry and free of any white zinc salts. Prime with Devguard 4160 or Devguard 4360 primers.

Wood:
Interior - Prime with Glidden Professional 1120.
Exterior - Spot prime knots with Glidden Professional House 2000 primer. Prime entire surface with Glidden Professional Stain Stomper 2110.

Drywall:

Prime with Glidden Professional Gripper 3210 primer sealer

Concrete, Plaster and Masonry:

Cure at least 30 days before painting. pH must be 10.0 or lower. Roughen slick poured or pre-cast concrete and remove sealers by chemical cleaning or abrasive blasting. Rinse thoroughly with water and allow to dry. Remove loose aggregate. Prime interior concrete or plaster with this product or with Glidden Professional Gripper 3210 primer sealer. Prime exterior masonry with Glidden Professional 6001 primer. Fill concrete block with Bloxfil 4000 or Glidden Professional 3010 fillers.

Previously Painted Surfaces:

Wash to remove contaminants. Rinse thoroughly with water and allow to dry. Dull glossy areas by light sanding. Remove sanding dust. Remove loose paint. Scrub heavy chalk exterior areas and overhead areas such as eaves with soap and water. All existing mildew must be removed by washing with a solution of 16 oz. (473 ml) liquid household bleach and two oz. (59 ml) non ammoniated liquid detergent per gallon (3.785 L) of water. Rinse surfaces clean with water and allow to dry for 24 hours. Prime bare areas with primer specified under New Surfaces. Prime severely weathered exterior surfaces with Glidden Professional Stain Stomper 2110. Surfaces in good condition generally may be done with one coat.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
Airless Spray	Suitable	Use a 13 thou (0.33mm) tip size and adjust pressure as needed.
Brush	Recommended	
Roller	Recommended	
Thinner	Do not thin	
Cleaner	Mineral Spirits or VM&P Naphtha	
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with mineral spirits or VM&P Naphtha. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage.	
Clean Up	Clean all equipment immediately after use with mineral spirits or VM&P Naphtha. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

PRODUCT CHARACTERISTICS

Advantages:

- Durable high gloss finish
- Interior or exterior usage
- Protects against atmospheric corrosion
- Excellent flow and leveling
- High hiding
- Washable and scrubbable
- Good abrasion resistance
- Easy application by brush, roll or spray
- Excellent resistance to grease, oil and water

For best opacity, tint primers toward finish coat color. Certain shades of yellow, orange, pink and red may require multiple coats.

Important: Alkyd or oil-based enamels may yellow in time in the absence of light, especially sunlight.

Do not apply if temperature is less than 40ºF (4°C), relative humidity exceeds 85% or temperature is within 5ºF (3°C) of the dew point.

Surfaces coated with this product may become slippery when wet. For additional slip resistance in areas of pedestrian traffic, add one pound per gallon of coarse pumice or other texturing material.

When applying Devguard 4308 by brush or roller, it may be necessary to apply multiple coats to achieve the required film build and uniform opacity.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in color and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

The following primers are recommended for Devguard 4308:

Devguard 4160
Devguard 4180
Devguard 4360
Rustguard 4140

ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Vol	Pack
	1 US gal	1 US gal	1 US gal
	5 US gal	5 US gal	5 US gal
	For availability of other pack sizes contact International Protective Coatings		
SHIPPING WEIGHT	Unit Size		
	1 US gal	11 lb	
	5 US gal	54 lb	
STORAGE	Shelf Life	12 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	

Disclaimer

www.international-pc.com

HPC/Industrial Maintenance

Pitt-Tech® Int./Ext. Satin DTM Industrial Enamels

GENERAL DESCRIPTION

Pitt-Tech® Satin Industrial Enamels are a full line of 100% Acrylic water borne enamels designed for direct-to-metal application. These products provide corrosion protection, chemical and solvent resistance, and are fast drying with low odor. Recommended for use on properly prepared interior or exterior metal, masonry, plaster, and drywall surfaces. **For Professional Use Only; Not Intended for Household Use.**

RECOMMENDED USES

Aluminum
Drywall
Ferrous Metal
Galvanized Steel
Concrete, Stucco, Plaster, Masonry
CMU

FEATURES AND BENEFITS

Excellent adhesion for true DTM performance in Pastel Base Ready-Mixed Colors
Improved color, and gloss retention versus most alkyds and two component coatings.
High hiding
Flash rust resistant
Easy to apply, low odor
Performance Offset to Federal Standard TT-E-2784 and MIL-P-28578
Can help earn LEED 2009 credits

MIXING AND APPLICATIONS INFORMATION

Mix thoroughly before and during use.

Permissible temperatures during application:

Material:	60º to 90º F	16ºC to 32ºC
Ambient:	50º to 100º F	10ºC to 38ºC
Substrate:	50º to 120º F	10ºC to 49ºC

Application Equipment: Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

Brush: High Quality Polyester/Nylon Brush

Roller: 3/8” nap roller cover

Airless Spray: Pressure 1500 - 3000 psi, tip 0.013” to .0.015”

Conventional Spray: Fluid Nozzle: DeVilbiss 510 gun, with 704 or 777 air cap with E tip and needle, or comparable equipment.
Atomization Pressure: 55-70
Fluid Pressure: Can not specify, dependent on numerous factors.

Thinning: Thinning is not usually required. Excessive thinning or insufficient film thickness may cause rust staining. If rust staining occurs, apply an additional coat. Do not add oils, paint thinners, or any paint additives. For additional open time and better flow and leveling during times of extremely low humidity and/or high temperatures up to 8 ounces of 90-740 Pitt-Tech® Conditioner may be added per gallon of Pitt-Tech.

TINTING AND BASE INFORMATION

90-406	Safety Red
90-430	Safety Yellow
90-444	Bronze Tone
90-453	Black
90-474	White and Pastel Base
90-475	Midtone Base*
90-476	Deeptone Base*
90-477	Deep Rustic Base*

*Must be tinted before use.

Refer to the appropriate color formula book, automatic tinting equipment, and or computer color matching system for color formulas and tinting instructions.

PRODUCT DATA

PRODUCT TYPE: 100% Acrylic Formula
GLOSS: Satin: 20 to 40 (60º Gloss Meter)
VOC*: 1.89 lbs./gal. (227 g/L)
COVERAGE: 200 to 303 sq. ft./gal. (19 to 28 sq. m/3.78L)
Note: Does not include loss due to varying application method, surface porosity, or mixing.
DFT: 2.0 to 3.0 mils
WEIGHT/GALLON*: 10.2 lbs.(4.6 kg)+/-0.2 lbs. (91g)
VOLUME SOLIDS*: 38% +/- 2%
WEIGHT SOLIDS*: 50% +/- 2%
MIXED RATIO: One Component
*Product data calculated on mixed product.

Wet Film Thickness:	5.5 to 8.3 mils
Wet Microns:	140.0 to 210.0
Dry Film Thickness:	2.0 to 3.0 mils
Dry Microns:	50.8 to 76.2

IN SERVICE TEMP.: Dry Heat 250ºF (121ºC)
DRYING TIME: Dry time @77ºF (25ºC); 50% relative humidity.

To Touch:	1 hour
To Handle:	4 hours
To Recoat:	4 hours

Drying times listed may vary depending on temperature, humidity, film build, color, and air movement.
CLEANUP: Soap and Water

FLASH POINT: Over 200ºF (93ºC)

PACKAGING

1-Gallon (3.78L)
5-Gallon (18.9L)

GENERAL SURFACE PREPARATION

The surface to be coated must be dimensionally stable, dry, clean, and free of oil, grease, release agents, curing compounds, and other foreign materials. The service life of the coating is directly related to the surface preparation. Where appropriate bare areas should be primed with a suitable primer. Pitt-Tech® 90-712 Series, Industrial Enamel Primers, must be used on all bare metal substrates when using colors made from Midtone, Deeptone, and Deep Rustic bases. Remove and inhibit regrowth of mildew on exterior surfaces by using PPG Mildew Check® Multi-Purpose Wash, 18-1. Before use, be sure to read and follow the instructions and warnings on the label.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. In Canada contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

PREVIOUSLY PAINTED SURFACES: Old coatings should be tested for adhesion of the existing system.

FERROUS METAL: Rust and other surface contaminants must be removed. Then the surface thoroughly cleaned to remove all other contaminants.

GALVANIZED STEEL: Solvent Clean per SSPC-SP1 to remove grease and oils. If any oxidation (white rust) has formed, sand and remove all forms of contamination. If the galvanized has been passivated or stabilized, the surface must be abraded i.e. Brush-Off Blast Clean per SSPC-SP7 or chemically treat the surface.

ALUMINUM: Solvent Clean per SSPC-SP1 to remove grease and oils.

CONCRETE, STUCCO, PLASTER, MASONRY other than CMU: Allow all concrete, mortar, plaster, etc. to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination. Concrete which has been treated with curing compounds or hardeners, should be thoroughly abraded.

CONCRETE MASONRY UNITS: Allow the mortar to cure for thirty (30) days under normal drying conditions. Remove all dirt, dust, grime, loose mortar and all other forms of contamination.

RECOMMENDED PRIMERS

Interior Wood	17-921, 17-955
Concrete, Stucco, Plaster, Masonry other than CM Unit	4-603, 4-808
Concrete Masonry Units	6-15, 16-90
Drywall	6-2, 9-900, 17-921
Aluminum	6-204, 90-712
Exterior Wood	6-609, 17-921
Ferrous Metal	Self priming, 6-208, 7-852, 90-712
Galvanized Steel	Self priming, 6-209, 90-712

LIMITATIONS OF USE

For Professional Use Only; Not Intended for Household Use. Apply only when air, product and surface temperatures are between 50°F - 100°F (10°C - 38°C) and surface temperature is at least 5°F (3°C) above the dew point. Avoid exterior painting late in the day when dew or condensation are likely to form or if rain is threatening. Two coats are required for maximum protection and durability if used as a finish coat. Do not use on large wood structures or for immersion service. PROTECT FROM FREEZING. Excessive thinning or insufficient film thickness may cause rust staining. If rust staining occurs, apply an additional coat.

SAFETY

Proper safety procedures should be followed at all times while handling this product. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN. Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury. Read all label and Material Safety Data Sheet for important health/safety information prior to use. MSDS are available through our website www.ppghpc.com or by calling 1-800-441-9695.

PPG Industries, Inc.
Architectural Coatings
One PPG Place
Pittsburgh, PA 15272
www.ppghpc.com

Technical Services
1-800-441-9695
1-888-807-5123 fax

Architect/Specifier
1-888-PPG-IDEA

PPG Canada, Inc.
Architectural Coatings
4 Kenview Blvd
Brampton, ON L6T 5E4

E3 11/2011
Supersedes (9/2011)

1710 KEL-GUARD

Alkyd Rust-Preventative Primer

Product Description

A premium quality alkyd red oxide rust preventative primer for metal surfaces. Formulated with superior wetting properties to provide excellent performance on hand-cleaned ferrous metal surfaces. Provides excellent adhesion and corrosion resistance, and will withstand moderate weathering until finish coats are applied. Not recommended on non-ferrous metals.

MPI Approved Product Category: #79

Performance Features

- **Rust Preventative**
- **Excellent Adhesion**
- **Corrosion Resistant**
- **Good Flow and Leveling**
- **Excellent Wetting Properties**

Product Specifications

Resin Type	Alkyd
Color Range	Red
Drying Time (75º F. & 50% R.H.)	To touch: 2-4 hours To recoat: overnight.
Practical Coverage	Approx. 450-550 sq ft/gallon
Recommended Dry Film Thickness	1.5-2.0 mils per coat
Weight Per Gallon	12.3 lbs.
Solids By Weight	77%
Solids By Volume	59%
Shelf Life	2 years (unopened containers)
Sizes	Five gallon, one gallon & quarts
V.O.C.	<350 Grams per liter
Clean Up	Mineral spirits

Product Analysis (by weight)

PIGMENT COMPOSITION	**55%**
Red Oxide:	8%
Silicates:	27%
Calcium Carbonate:	14%
Rust Inhibitive Pigment:	6%

VEHICLE COMPOSITION	**45%**
Alkyd:	22%
Solvent, Surfactants, Driers:	23%

Surface Preparation

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

General:
All surfaces must be cured, firm, dry and cleaned free of dust, dirt, oil, grease, wax, chalky or loose paint, rust, loose mill scale, bond breakers and curing compounds, efflorescence, asphalt stains, mildew or any other contamination or condition that would adversely affect the performance of the coating. Sand glossy, glazed or dense surfaces. Fill holes and surfaces irregularities with a suitable patching compound to match the surface profile.

New Ferrous Metal:
Follow general surface preparation guidelines. Remove all loose rust, mill scale, or deteriorated previously applied coatings by Hand Tooling (SSPC-SP-2) or Power Tool Cleaning (SSPC-SP-3). Prime with specified primer immediately after cleaning.

System Recommendations

Ferrous Metal:

PRIMER: 1710 Kel-Guard Alkyd Rust-Preventative Primer

FINISH: Appropriate Kelly-Moore Enamel

Application

Brush, roll, or spray. Maintain a wet edge to avoid lap marks. Do not apply when material, air, and/or surface temperature is below 40°F. Extremely high or low temperature may adversely affect dry time. Stir thoroughly before and during use.

Thinning

This product has been formulated to comply with current regulations. DO NOT THIN.

Continued Next Page

1710 KEL-GUARD (cont.)

Precautions

WARNING! COMBUSTIBLE LIQUID AND VAPOR

Contains Mineral Spirits. Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes eye, skin, nose and throat irritation. **NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. **Keep away from heat and flame**. Do not smoke. Prevent build-up of vapors in enclosed areas by opening all windows and doors to achieve cross-ventilation during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air or wear respiratory protection (NIOSH/MSHA TC 23C or equivalent) or leave area. Always wear respiratory protection during spray application. Close container after each use. Avoid contact with eyes and skin. **FIRST AID**: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention. For skin contact, wash thoroughly with soap and water. If swallowed, get medical attention immediately. For additional safety information, consult the Material Safety Data Sheet for this product.

USE ONLY WITH ADEQUATE VENTILATION.
KEEP OUT OF REACH OF CHILDREN.

Proper Disposal

For proper disposal of excess material, please contact your local city or county waste management agency.

Limited Warranty: The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

PRODUCT INFORMATION

McCloskey®
1191 Wheeling Road, Wheeling, IL 60090
Phone: 847-541-9000 Fax: 847-541-7549

PRODUCT: 80-6505 Series

DESCRIPTION:
McCloskey® Man O' War® Marine Spar Varnish (Calif.)

FEATURES:
Exterior Spar Varnish provides maximum protection and long lasting beauty to exterior wood. Unlike traditional clear finishes which become brittle, crack and peel when used outdoors, this marine quality finish remains flexible and absorbs the expanding and contracting seasonal movement of the wood. This clear finish is formulated with ultra violet absorbers to resist the sun's degrading rays and protect the wood's natural appearance. This tough finish is ideal for heavy use surfaces.

WHERE TO USE:
For interior and exterior wood surfaces that are subjected to sun, moisture and weather. Ideal for wood doors and trim, window sills, outdoor furniture and crafts, railings, and wooden boats. Use on properly prepared bare, stained or previously varnished surfaces. Do not use on wooden decks or steps, log homes, wood siding or wood boats below the water line.

SURFACE PREPARATION:
Surfaces painted prior to 1978 may have lead-based paint.
General: Clean and dry surface thoroughly, removing all dirt, dust, and wood marks. Remove gloss with sandpaper or liquid gloss remover. Do not apply varnish over lacquer or shellac, or stearated sanding sealer.
New or Stained Wood: Smooth wood with multiple sanding steps using successively finer grades of sandpaper. Stain, if desired and allow to dry overnight and sand lightly again. Remove sanding dust very carefully with a tack cloth before finishing.
Varnished Wood: Remove all previous coatings and stains in poor condition with sandpaper or paint and varnish remover (following manufacturer's instructions and safety precautions). Then follow new wood instructions. Previous varnish in good condition merely needs to be cleaned and have the gloss dulled.

TYPICAL PRODUCT PROPERTIES:

VEHICLE TYPE:	Modified Alkyd Resins
SOLIDS:	63% WT. 56% VOL.
VOC:	350 g/l max
WT/GAL:	7.7 lbs.
VISCOSITY:	D-F Gardner Holdt Bubbles
FLASHPOINT:	101ºF
60º GLOSS:	90+ Units (6509 Gloss)
	60-70 Units (6507 Semi-gloss)
	40-50 Units (6505 Satin)

COVERAGE:
450-550 Sq. Ft. Gallon
Depending on porosity.

FILM THICKNESS: 3.2 Wet
1.8 Dry

DRY TIMES:
Dries to the touch in 8-10 hours, wait 24 hours before recoating. Dry times are longer in high humidity or cool temperatures.

80-6505 Series McCloskey Man O' War Spar Varnish

APPLICATION:

Apply only when surface an air temperatures are between 50-90ºF during application and drying time.**1.** Stir before and occasionally during use making sure not to create bubbles. DO NOT SHAKE! **2.** Before finishing, check color effect by applying finish to an extra piece of the same wood or by applying to a hidden part of the object. **3.** Apply a uniform, thin coat using a high quality, clean polyester or natural bristle brush. **Do not apply with a roller**. **4.** Brush in even strokes in the direction of the wood grain. Use care on vertical surfaces to avoid runs. **5.** Apply at least two thin coats to all surfaces and especially the edges. For maximum protection apply up to four coats. **6.** Between coats, allow to dry overnight and sand lightly. Remove all sanding dust before applying each additional coat.

THINNING/CLEAN UP:

Do not thin.
Clean up with mineral spirits.

PACKAGING:

Gallons	2 Pack
Quarts	4 Pack

STORAGE AND DISPOSAL: Keep container closed when not in use. Do not transfer contents to other containers for storage or disposal. In case of spillage, absorb with inert material such as sand or kitty litter. Dispose of contaminated absorbent, container and/or unused contents in accordance with local, state and federal regulations. **Danger:** Rags, steel wool, sanding dust or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after each use, place rags, steel wool, sanding dust or waste in a sealed, water-filled metal container.

Product Information Hotline:
1-800-345-4530

TYPICAL ANALYSIS (Gloss)

C.A.S. NO.	INGREDIENTS
66070-60-8	Alkyd Resin
64742-47-8	Mineral Spirits
68608-53-7	Alkyd Resin
8052-41-3	Exempt Mineral Spirits
2807-30-9	Eth. Glycol Monopropyl Ether

CAUTIONS:

Contains Petroleum Distillate

May affect the brain or nervous system causing dizziness, headache or nausea. Causes eye, skin, nose and throat irritation. USE ONLY WITH ADEQUATE VENTILATION. Keep away from heat, sparks and flame. Avoid breathing vapors, spray mist or sanding dust. If painting indoors, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection (NIOSH/MSHA TC23C or equivalent) or leave the area. When sanding wear a dust mask. AVOID CONTACT WITH THE EYES AND SKIN. Wash thoroughly after use. Close container after each use.

FIRST AID: EYE CONTACT: Flush thoroughly with water for at least 15 minutes. If irritation persists, **get medical attention.** IF INHALED: If affected by vapor or spray mist, move to fresh air. If breathing difficulty continues **get medical attention.** IF SWALLOWED: Drink 2 glasses of water. **Get medical attention immediately.**

Delayed effect from long term exposure:
Crystalline silica may cause lung damage and cancer. Risk depends upon duration and level of exposure to sanding dust.

DO NOT TAKE INTERNALLY.
KEEP OUT OF REACH OF CHILDREN.
For additional safety and chronic health hazard information, refer to the Material Safety Data Sheet for this product.
EMERGENCY MEDICAL TELEPHONE:
1-888-345-5732
This product contains less than 350 g/L VOC (2.9 lb./Gal VOS)

This product complies with Federal Law restricting the presence of lead in consumer coatings.
WARNING: Removal of old paint by scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-LEAD-FYI. See additional cautions above.

PRODUCT DATA SHEET

Precatalyzed Waterborne Lacquer
WPC-00XX

DESCRIPTION

Gemini's WPC Series Waterborne Coating is a Self Cross-linking Aliphatic Urethane specifically designed for High Performance uses where superior hardness, flexibility, chemical resistance, moisture resistance, and abrasion resistance are desired. Developed for use on kitchen cabinets, furniture, molding, window components, flooring and many other substrates where superior hardness and moisture resistance are critical. This product is a single pack system and requires no additional catalyzation, it meets all of the pertinent government regulations regarding emissions and meets or exceeds the performance parameters outlined by the National Kitchen Cabinet Association For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS

WPC-0090 Gloss (90°)

WPC-0060 Semi-Gloss (60°)

WPC-0030 Satin (30°)

WPC-0010 Low Gloss (10°)

PRODUCT ADVANTAGES

- Extremely Durable
- Good Flexibility
- Water and Chemical Resistant
- Mar and Abrasion Resistant
- Pass 2 H Pencil Hardness
- Passes KCMA
- Good Gloss Retention
- Excellent Clarity
- Self Sealing
- No Critical Recoat Time

COATING PROPERTIES

Viscosity: 35 to 45 #2 Zahn

Weight Solids: 30.57% - 33%

Volume Solids: 28.22% - 30%

Weight/Gallon: 8.6 lbs./gal

Film Hardness: 2 h 7 Days

Color: Slight Amber Cast

VOC (Reg./coating): .55 lb./gl. or 66 g/l
VOC (Act./material): 1.4 lb./gl. or 168 g/l
HAPs: Zero

Coverage: 453 sq. ft. per gallon at one mil dry film thickness.
Dry Time: Touch: 35 minutes
Recoat: 2-3 hours

(Note: relative humidity and temperature will effect dry time)

Shelf Life: 6 months if unopened and stored in a cool dry area. Always rotate stock.

***Protect product from freezing.**

*** Airless Equipment Usage:**

****Due to the nature of this product, when used in airless equipment that is not a stainless steel system; pumps require daily flushing and cleaning. Do not leave product in the system overnight as discoloration can take place due to reaction between the coating and non-stainless metals. ****

Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.

PREPARATION INSTRUCTIONS

Surface Preparation:
New wood: Remove any dirt, grease, glue or other contaminants and sand wood as required. Moisture content of wood should be 7-9%. **Old wood**: Strip old finishes completely and remove all contaminants from the surface. Make sure the surface is dry, sand as required. Finish as new work.

Material Preparation:
Make sure coating is at room temperature. When applying a water base coating the air, substrate & coating temp should be above 65 degrees F. Stir or mix coating to ensure flatting agent dispersion. **Never shake water base, as this will cause foaming.** Filter if desired. Viscosity should be adjusted using water for reduction to desired Zhan #2. Depending on type of application equipment used.

Application:
Coating may be applied with the following equipment: Conventional, HVLP, Air Assist, Airless and Brush. For flooring application use Brush, Roll, Spray or T-Bar / Squeegee applications. Do not exceed 5 dry mils for the total coating system. Be sure to sand between coats for adhesion.
If a sealer is required, use WBS-0100 Universal Sealer.
Coating may be used as a Self Seal system. Do not exceed 4 coats as a Self Seal system.

Clean Up:
Equipment should be thoroughly flushed with water and then followed with a flush of acetone or other water-soluble solvent. Be sure to re-flush equipment with water before loading with water base coating
Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Substrate preparation:
New wood: Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%. Sand to 150-180 grit. Proper sanding of wood is absolutely critical to achieve the best color development and adhesion of the coating to the substrate.
Old wood: Strip old finishes completely and remove all contaminants from the surface. Make sure the surface is dry, sand as required. Finish same as new wood.

Mixing Instructions:
Mix material thoroughly before and during use. Material may be mixed by hand or mechanical agitation at moderate speed.

Application:

Recommended Tip Sizes:

Conventional Air	1.3-1.8mm
HVLP	1.3-1.8mm
Airless	10-15 thousandths
Air Assisted Airless-	11-15 thousandths

Precautions:
These products are intended for Professional use only. Do not proceed if you are planning on mixing with other finishing systems or other manufacturer's products. Gemini will not be held liable for finish failures due to the improper use of our products or deviation from our finishing recommendations

Equipment:
All equipment used with this product must have plastic, stainless steel, or Teflon fluid passages and wetted parts

Containers:
We supply this material in a lined container. All containers used in conjunction with storage and/or application of this product must be stainless steel, plastic, or otherwise acid resistant.

Clean up:
Use SOL-9011 Non HAPs Thinner to clean up all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Care and cleaning of this finish: Use a mild dishwashing liquid and a damp cloth to remove food, grease, and other residue. Wipe dry. Do not use cleaners that contain ammonia, bleach, or abrasives as this may damage the finish.

PRODUCT DATA SHEET

Ultra-Seal MAX Precat Sealer, Clear

DESCRIPTION

Ultra Seal Max is a high quality pre-catalyzed lacquer sealer designed to be used in conjunction with Gemini's pre-catalyzed and UL II Topcoats. Ultra Seal Max provides rapid cure schedules and exceptional sanding properties. Ultra Seal Max meets all of the pertinent government regulations regarding emissions and exceeds the performance parameters outlined by KCMA and ASTM. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS

USM-0350 Clear Sealer

PRODUCT ADVANTAGES

- Virtually HAP's Free
- AIM Compliant
- User Friendly
- Improved Flow and Leveling
- Faster Dry Time
- Water Clear
- No Critical Recoat Time
- Non Photo Chemically Reactive
- Phthalate Free
- Exceeds KCMA and ASTM Performance Requirements, When Applied to Manufacturer's Specifications

COATING PROPERTIES

Viscosity: 21 #2 Zahn
Weight Solids: 22%
Volume Solids: 16%
Weight/Gallon: 7.49 lbs./gal
Coverage: 256 sq. ft. per gallon at one mil dry film thickness.

VOC (coating): 5.63 lbs./gl. or 674 g/l
VOC (material):4.52 lbs./gl. or 542 g/l
VOC Ratio: 2.72 Lbs. VOC/Lbs. Solids
HAPS Ratio: 0.08 lbs. HAPS/lbs. solids

Dry Times:
Air Dry: at 78°F, relative humidity 50%
To touch: 7 minutes
To Handle: 9 minutes
To sand/recoat: 15 minutes
Force Dry:
Flash: 8-10 minutes
Bake:15 min @ 110° F
Cool down: 10 min
Stack immediately after cool down
Relative humidity will affect the speed of drying. Ideal conditions are 75° F or warmer at 50% humidity or less. Dry time will be faster at higher temperatures and lower humidity and equally slower at colder temperatures and higher humidity.

Dry Film Thickness: Maximum DFT for this system is 4 mils dry.

Pot Life: 12 months

Shelf Life: 12 months @77° F if unopened and stored in a cool dry area. Always rotate stock.
Storage: Keep away from heat or sparks.

Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.

PREPARATION INSTRUCTIONS

Catalyzation: This product comes pre-catalyzed. Do NOT add catalyst.

Reduction:
Thinning: If needed due to conditions in your facility use SOL-9011 HAPs Free Thinner at levels not to exceed 5% by volume*

Retarder: If a slower dry time is desired, use SOL-9012 Haps Free Retarder at levels not to exceed 3% by volume*

*Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.

Approved Companion Products
PC-02X0 Series
UL-02X0 Series

Revised June 24, 2015

Substrate preparation:

New wood: Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%.

Sand to 150-180 grit. Proper sanding of wood is absolutely critical to achieve the best color development and adhesion of the coating to the substrate.

Old wood: Strip old finishes completely and remove all contaminants from the surface. Make sure the surface is dry, sand as required. Finish as new work.

Mixing Instructions:

Mix material thoroughly before and during use. Material may be mixed by hand or mechanical agitation at moderate speed.

Application:

If staining, apply the approved Gemini stain of your choosing and let dry per the instructions on the PDS for that particular stain. Using conventional, HVLP, airless, or air assisted equipment, apply this sealer at 3-4 wet mils per coat. Let dry a minimum of 15 minutes. Sand with 280-320 grit no-fill sandpaper and remove sanding dust with clean compressed air, or tack rag. This sealer must be sanded before applying a topcoat.

Typically we recommend a coating system comprised of one coat of USM-0350 applied at 3-4 mils wet film build and 1-2 coats of topcoat applied at 3-4 mils wet film build. Approved topcoats for use with this sealer are our PC-02X0 Series and UL-02X0 series. Please refer to the PDS for the topcoat you choose for dry film limitations for the complete system.

Recommended Tip Sizes:

Conventional Air	1.2-1.8mm
HVLP	1.3-1.5mm
Airless	10-15 thousandths
Air Assisted Airless-	11-15 thousandths

Precautions:

These products are intended for Professional use only. Do not proceed if you are planning on mixing with other finishing systems or other manufacturer's products. Gemini will not be held liable for finish failures due to the improper use of our products or deviation from our finishing recommendations

Equipment:

All equipment used with this product must have plastic, stainless steel, or Teflon fluid passages and wetted parts

Containers:

We supply this material in a lined container. All containers used in conjunction with storage and/or application of this product must be stainless steel, plastic, or otherwise acid resistant.

Clean up:

Use SOL-9011 Non HAPs Thinner to clean up all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Care and cleaning of this finish: Use a mild dishwashing liquid and a damp cloth to remove food, grease, and other residue. Wipe dry. Do not use cleaners that contain ammonia, bleach, or abrasives as this may damage the finish.

PRODUCT DATA SHEET

Max Cat Precatalyzed Topcoat

DESCRIPTION

Max Cat is a superior quality pre-catalyzed lacquer formulated for ease of use and fast cure schedules. It is designed for use on kitchen and bathroom cabinets, architectural millwork, furniture, and any other interior wood surface that requires a durable finish. It is supplied to the customer at application viscosity thereby eliminating the need for the incorporation of additional thinners prior to application. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS

PC-0290 Gloss (90°)

PC-0260 S.G. (60°)

PC-0240 (40°)

PC-0230 Satin (30°)

PC-0220 (20°)

PC-0210 Flat (10°)

PRODUCT ADVANTAGES

- Rapid Cure Schedule
- Softer, Richer, Look And Feel
- Excellent Flow And Leveling Properties
- Ready to Spray
- Self Sealing
- Meets KCMA and ASTM Requirements When Applied To Manufacturer Specifications
- Non Photo Chemically Reactive
- Phthalate Free
- Includes UV Inhibitor
- No Catalyst Required

COATING PROPERTIES

Viscosity: 30 #2 Zahn
Weight Solids:27.04-27.94%
Volume Solids: 20.39-20.88%
Weight/Gallon: 7.81-7.86 lbs./gal
Coverage: 327-335 sq. ft. per gallon at one mil dry film thickness.

VOC (coating): 5.46-5.49 lbs./gl. or 654-658 g/l
VOC (material):5.14-5.17 lbs./gl. or 616-619 g/l
VOC Ratio:2.35-2.46 lbs. VOC/lbs. solids
HAPS Ratio: 0.3023-0.3162 lbs. HAPS/lbs. solids

Dry Times:
Air Dry: at 78°F, relative humidity 50%
To touch: 6 minutes
To Handle: 10 minutes
To sand/recoat: 17-20 minutes
Force Dry:
Flash: 8-10 minutes
Bake: 15 @110˚F minutes
Cool down: 10 minutes
Stack: 1 hour after cool down
Relative humidity will affect the speed of drying. Ideal conditions are 75°F or warmer at 50% humidity or less. Dry time will be faster at higher temperatures and lower humidity and equally slower at colder temperatures and higher humidity.

Dry Film Thickness:
Maximum DFT for a complete system must not exceed 4 dry mils.

Pot Life: N/A

Shelf Life: 12 months.

Storage: Keep away from heat or sparks.

PREPARATION INSTRUCTIONS

Catalyzation: This product comes pre-catalyzed. Do NOT add catalyst.

Reduction:
Thinning: If needed due to conditions in your facility use SOL-9011 HAPs Free Thinner at levels not to exceed 10% by volume*

Retarder: If a slower dry time is desired, use SOL-9012 Haps Free Retarder at levels not to exceed 5% by volume*

Note: Effective dry times will be lengthened if retarder is added

*Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.

Approved Companion Products
USM-0350

Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.

Revised Oct. 3rd 2013

Substrate preparation:
New wood: Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%. Sand to 150-180 grit. Proper sanding of wood is absolutely critical to achieve the best color development and adhesion of the coating to the substrate.
Old wood: Strip old finishes completely and remove all contaminants from the surface. Make sure the surface is dry, sand as required. Finish as new work.

Mixing Instructions:
Mix material thoroughly before and during use. Material may be mixed by hand or mechanical agitation at moderate speed.

Application:
If staining, apply the approved Gemini stain of your choosing and let dry per the instructions on the PDS for that particular stain. Using conventional, HVLP, airless, or air assisted equipment, apply this product at 3-4 wet mils per coat. Let dry a minimum of 17-20 minutes. Sand with 280-320 grit, no-fill sandpaper and remove sanding dust with clean compressed air, or tack rag. This product must be sanded in between coats to ensure proper adhesion. This product may be used with a sealer or as a self seal system.
If a sealer is desired, we recommend a coating system comprised of one coat of USM-0350 applied at 3-4 mils wet film build and 1-2 coats of topcoat applied at 3-4 mils wet film build. If used as a self seal system we recommend 2-3 coats of PC-02X0 series. Maximum dry film thickness of the complete system must not exceed 4 dry mils.

Recommended Tip Sizes:

Conventional Air	1.3-1.8mm
HVLP	1.3-1.8mm
Airless	10-15 thousandths
Air Assisted Airless-	11-15 thousandths

Precautions:
These products are intended for Professional use only. Do not proceed if you are planning on mixing with other finishing systems or other manufacturer's products. Gemini will not be held liable for finish failures due to the improper use of our products or deviation from our finishing recommendations

Equipment:
All equipment used with this product must have plastic, stainless steel, or Teflon fluid passages and wetted parts

Containers:
We supply this material in a lined container. All containers used in conjunction with storage and/or application of this product must be stainless steel, plastic, or otherwise acid resistant.

Clean up:
Use SOL-9011 Non HAPs Thinner to clean up all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Care and cleaning of this finish: Use a mild dishwashing liquid and a damp cloth to remove food, grease, and other residue. Wipe dry. Do not use cleaners that contain ammonia, bleach, or abrasives as this may damage the finish.