

ORNAMENTAL FENCE,
WINDOW GRILLES & BANISTER
SPECIFICATIONS

CUARTEL DE BALLAJÁ SAN JUAN, PR, 00901

PUERTO RICO STATE HISTORIC PRESERVATION OFFICE

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INTRODUCTION

Technical specifications are the means by which the design concept is described in conjunction with the construction drawings. They constitute the section of the construction documents in which the type, quantity and quality of the materials and finishes to be used in the construction are described. The technical specifications complement the construction drawings and the help describe construction process and other instructions that are hard to describe in drawings.

Construction drawings and technical specifications are meant to be use together and what is specified in each one of them is as required as what is indicated on both.

PART 1 - RELATED DOCUMENTS AND GENERAL CONDITIONS

- 1.01 The general provisions of the Contract, including General and Special Conditions apply to the work specified in this section.
- 1.02 The construction drawings have the same importance as this set of specifications.
- 1.03 Attachments and product information are to be used in conjunction with this set of specifications. The contractor is responsible for contacting the designer in case any discrepancies.
- 1.04 The contractor will be diligent in supplying information to be approved by the designer, will get the necessary permits and insurance to start working in the project. He or she will assist the designer in securing the use permit.
- 1.05 In the event of a prolonged power failure the contractor must provide generator and place them in a place/way that it does not affect people's health or peace.
- 1.06 The contractor will supply all the scaffolding, tools, equipment, security fencing, water and cleaning materials necessary for the project.
- 1.07 The construction area should be reasonably clean at all times, there will be accumulation of left-over materials or debris stored in the premises. At the end of the project and before the final inspection, the contractor will remove all the equipment; materials and tools, leaving the premises reasonably clean.

PART 2 - DESCRIPTION OF WORK

- 2.01 The project is located in Old San Juan, Puerto Rico and it occupies a city block flanked by Norzagaray St., del Morro St., Beneficiencia St. and Morovis St. The project has been commissioned by the State Historic Preservation Office of Puerto Rico in order to rebuild the perimeter fence, stair banister and window grilles damaged by Hurricane Maria and Hurricane Irma.
- 2.02 The existing historic walls and the openings in them have differences in size that should not be altered. All the metalwork should be adjusted in a manner as to evenly distribute all the differences and unevenness of the openings.

PART 3 - QUALITY ASSURANCE

- 3.01 Only competent workers will be employed and a supervisor will be present at all times. The supervisor must have experience and be able to read and interpret construction documents and specifications with precision. He or she should also follow the contractor's instructions and orders. All finished work should be of top

quality according to construction documents.

- 3.02 The contractor will allow the owner and/or his or her representative inspect the premises and the work being performed at all times. Corrections to the work should be performed diligently upon request.
- 3.03 Materials and work in progress and/or finished should be protected at all times against damages created by construction worker or weather.
- 3.04 All materials should be new and of the best quality. Material that has previously been used elsewhere is not acceptable. Only temporary enclosures and incidental uses of supporting materials that are not new will be allowed.
- 3.05 The work will be under guarantee for a period of one year. The contractor will replace or repair any item that has defects or does not work properly for a period of one year after the project is finished.
- 3.06 The construction documents are meant to provide enough information for the execution of the work. Any omissions that can be reasonably deduced from the information provided by the drawings and the technics specifications should be performed by the contractor at no extra cost to the owner.
- 3.07 The contractor will have a full set of drawings and specifications of the project at all times.
- 3.08 Workmanship

The contractor will follow the instructions of the finishing materials manufacturer at all times and will direct efforts to achieve its best results. Each coat of finishing material will be applied evenly, avoiding excess material to accumulate. There should not be any traces of brushstrokes or defects due to handling.

The contractor will protect the work area, sidewalks, parked cars, furniture and any other objects/surfaces from drippings of the finishing materials.

At the end of the project and before the final inspection the contractor will clean all the work areas putting special attention to paint drops and spills inside and outside of the building without damaging any surface.

Experienced workers that are familiar with the task, the tools, must apply all finishes. The contractor is responsible for the proper aberrance of the materials and to follow the steps of the finishing system according to manufacturer's specifications.

PART 4 - SUBMITTALS

4.01 Manufacturer's Data

- 1. Submit for the designer's approval, two copies of the fence, banister, and windows grilles shop drawings and installations plans including any other data that may be required to show compliance with the specified requirements.
- 2. Shop drawing should also include, the designer's approval before any work is begun.

4.02 Guarantee

- 1. Submit two copies of written agreement signed by the fabricator and the installer (if they are different), agreeing to repair or replace defective pieces.
- 2. The guarantee shall also include refinishing and reinstallation, which may be required due to repair or replacement of defective pieces. Guarantee shall be in effect during one year after the date of acceptance.

PART 5 - DELIVERY, STORAGE AND HANDLING

- 5.01 Protect metal pieces during transit; storage and handling should be adequate to prevent damage, soiling, and deterioration.

PART 6 - MATERIALS

- 6.01 Cast Aluminum
6.02 Stainless Steel 316

PART 7 - GENERAL FABRICATION REQUIREMENTS

All dimensions indicated in the construction drawings and the contractor should verify specifications.

7.01 Stile and Rail Construction

All scaffolding, ladders, personal protection, temporary protection of the openings and floors and temporary equipment should comply with the American Standard Safety Code for Building Construction, Occupational Safety and Health (OSHA), and local laws pertain to safety. All temporary installations will be removed when the project is finished.

The contractor will coordinate with owner the use of bathroom facilities in the premises and will be responsible for keeping it clean on daily basis. All the contractor's employees should have their breaks in an orderly manner in an area designated by the owner.

7.02 Actual Sizes

1. The drawings and schedules indicate standard overall sizes for the purpose of bidding.
2. Due to the fact that in this project, all openings exist, the Contractor is responsible for measuring each opening before fabricating the corresponding window grilles. The window grille frame should be at distance of 1-½" ($\pm \frac{1}{4}$ " tolerance) from the wall opening.

PART 8 - INSTALLATION

- 8.01 Before start working, the contractor must thoroughly inspect the site and working conditions. He or she needs to identify where to store materials and products in a safe way and keep the area organized and clean. The contractors are responsible for measuring all the spaces and confirm the dimensions in the construction documents. The walls should not be damaged or alter in order to install the work.

Craftsmanship and materials should be top quality. All construction should comply with quality standards and guide specifications. Details not included in the construction documents should satisfy accepted good industry practices. Any discrepancies in the construction documents, errors or omissions should be presented to the designer for clarifications.

The construction drawing contains the necessary information for the execution of the work. The contractor must submit shop drawings and installation plans before

starting any task.

Drawings and specifications are meant to supplement themselves, information that is not shown in the drawings and detailed in the specifications or, information shown in the plans and not detailed in the specifications should be treated as if it existed on both documents.

The contractor should include transportation and supervision of materials, workforce and equipment in order to do the work. The area must be kept clean at all times; employees should be identified with uniforms that are in good conditions.

The contractor is responsible to coordinate all the phases of the project in order to avoid conflict between them and assure an uninterrupted process.

The contractor is responsible for protecting the floors and walls when removing existing fence, banister and window grilles. The historic wall should be treated with care and delicacy. Once the metal is removed, if is necessary, the contractor will repair the area according to the specifications of "Instituto de Cultura Puertorriqueña" before installing the new metals.

The contractor should contact the designer for any questions about the depth, placing and installation of the anchoring system.

8.02 Ornamental Fence

Before removing the existing fence, the contractor shall provide a safe perimeter.

All the existing fence, including the existing anchorage will be removed. Previous anchorage areas that will not be used again should be repaired to maintain a similar aesthetic to the rest of the structure, using the guidelines for repairs to historic structures.

The area and the new anchorage areas will be prepare for the installation of the new fence. The contractor should carry out a core drill at the anchorage points, refer to construction drawings for dimensions. After the vertical support is in place, the reaming space should be fill with Sika Anchorfix-3001.

All the fence will be made with cast aluminum.

Grind all welds with emery head power drill attachment until a smooth surface is achieved, with no weld 'texture'.

One (1) coat of primer, Mobile Paint, MoPoxY Mastic Epoxy Coating.

One (1) coats of paint, Mobile Paint, Mothane HD Polyurethane Enamel 72-AW-21, color to be selected by owner.

* Paint layers will be applied with a compressed air spray.

The new fence should be painted before installation.

8.03 Banister

Before removing the existing banister, the contractor shall provide a safe perimeter.

All the existing banister, including the existing anchorage will be removed. Affected areas should be repaired to maintain a similar aesthetic to the rest of the structure, using the guidelines for repairs to historic structures.

The area will be prepare for the installation of the new banister. The contractor should carry out a core drill at the anchorage points, refer to construction drawings for dimensions. After the vertical support is in place, the reaming space should be fill with Sika Anchorfix-3001.

The banister will be made with stainless steel type 316.

Grind all welds with emery head power drill attachment until a smooth surface is achieved, with no weld 'texture'.

One (1) coat of primer, Mobile Paint, MoPoxY Mastic Epoxy Coating.

One (1) coats of paint, Mobile Paint, Mothane HD Polyurethane Enamel 72-AW-21, color to be selected by owner.

* Paint layers will be applied with a compressed air spray.

The new banister should be painted before installation.

8.04 Window Grilles

Before removing the existing window grilles, the contractor shall provide a safe perimeter.

All the existing window grilles will be removed. Affected areas should be repaired to maintain a similar aesthetic to the rest of the structure, using the guidelines for repairs to historic structures.

The area will be prepared for the installation of the new window grilles. The contractor should carry out a core drill at the anchorage points, refer to construction drawings for dimensions. After the vertical support is in place, the remaining space should be filled with Sika Anchorfix-3001.

The window grilles will be made with stainless steel type 316.

Grind all welds with emery head power drill attachment until a smooth surface is achieved, with no weld 'texture'.

One (1) coat of primer, Mobile Paint, MoPoxY Mastic Epoxy Coating.

One (1) coats of paint, Mobile Paint, Mothane HD Polyurethane Enamel 72-AW-21, color to be selected by owner.

* Paint layers will be applied with a compressed air spray.

The new window grilles should be painted before installation.

8.05 Finishing

The finishes should enhance the metalwork and offer protection to the metal from damage by moisture, contaminants and handling. A quality finish must offer acceptable performance and also meet aesthetic requirements. The finishing system provides a protective surface for the product. The contractor should control consistency, film thickness, environmental compliance, and curing/drying of the finished. Installation should be performed with a minimum amount of cuts, fitting, and adjustments to protect the finishes on site. The contractor shall finish all exposed metal as a result of on-site adjustments with the same steps and thickness of the shop finish.

The finisher/painter is responsible for examining and accepting the metalwork as supplied prior to the commencement of finishing. The finisher/painter for meeting or exceeding the control sample for surface performance characteristics (such as color, texture, and sheen), including proper surface preparation, shading, and blending of color, and other requirements as defined in this standard when so referenced.

PART 9 - ADJUST AND CLEAN

- 9.01 Protect installed ornamental fence, banister or window grilles from damage or deterioration until acceptance of the work.



PRODUCT DATA

MoPoxY™ Mastic Epoxy Coating 40-AW-32, 40-AH-51, 40-AR-19

Amine Adduct/Epoxy

PRODUCT DESCRIPTION

A two component high performance epoxy coating which offers high build application characteristics for a one coat system in many applications with a minimum of surface preparation. High solids and low VOC.

TYPICAL USES

For industrial and commercial use as a protective maintenance coating for industrial plants, pulp and paper mills, textiles mills, chemical processing plants, waste water plants, refineries, food processing plants, commercial buildings and marine structures. For coating and protecting storage tanks, piping, roofs and roof decks, water towers, structural steel, machinery, plant equipment, marine vessels, offshore structures and other surfaces exposed to humidity, chemicals and corrosive environments. Can be used over old coating systems to upgrade the performance. Excellent for use in areas where sandblasting is undesirable or impractical but high performance is required.

PRODUCT ADVANTAGES

MoPoxY™ Mastic Coating offers excellent protection in exposures including moderate to severe industrial and marine environments. Excellent resistance to fresh and salt water, detergents and most chemicals. Very good resistance to fumes and spillage of most organic solvents, acids and alkalis. Excellent abrasion and moisture resistance and flexibility. Very high solids. Low VOC. Heat resistant to 200°F.

COLORS

White 40-AW-32; Gray 40-AH-51; Red 40-AR-19 Special colors available subject to minimum order.

GLOSS

Semi-gloss

PHYSICAL CONSTANTS

Nonvolatile -	By weight - $90.9 \pm 1.0\%$ By volume - $81.2 \pm 1.0\%$
VOC (Calculated) -	1.30 lbs./gal. 155 grams/liter
Flash Point -	(A) 125°F; (B) 128°F (Setaflash)
Mixing Ratio -	1:1 by volume
Weight per gallon -	(A) 13.4 ± 0.2 lbs. (B) 15.1 ± 0.2 lbs.

APPLICATION

Recommended Film Thickness - 6.0 mils dry, 7.4 mils wet
Theoretical Coverage @ 6.0 mils dry - 217 sq. ft./gal.
Method - Brush, roller, conventional and airless spray
Thinner - MoPoxY™ Spraying thinner 75-37
Cure time @ 75°F -

To touch	-	3 hours
To handle	-	8 hours
To recoat	-	24 hours

Pot Life @ 75°F - 2 hours
Induction Time - 5 minutes

SHIPPING & STORAGE

Consists of -	2 Gallon Unit	10 Gallon Unit
Part (A)	1 Gallon	5 Gallon
Part (B)	1 Gallon	5 Gallon
Unit Shipping Weight	31 lbs.	149 lbs.

Shelf Life - 12 months minimum from date of manufacture when maintained in protected storage @ 40-100°F (subject to reinspection thereafter).

APPLICATION INSTRUCTIONS

Consult your Mobile Paint Representative for the protective coating system best suited for your requirements.

Limitations: Apply in good weather when air and surface temperatures are above 50°F and surface temperature must be at least 5°F above the dew point. For optimum application properties, material should be between 70° to 80°F prior to mixing and application. Maintain unmixed material in closed containers in protected storage at 40 - 100°F.

Surface Preparation: Good surface preparation is essential to a satisfactory coating system. Surfaces to be coated should be clean and dry. Remove all oil, grease, mildew or other contamination by solvent or detergent cleaning or other effective means.

New or Unfinished Surfaces - Ferrous Metal: For best performance, application to abrasive blasted surface is recommended. "Commercial Blast Cleaning" (SSPC-SP6) is recommended as the minimum. For immersion service "Near White Blasting Cleaning" (SSPC-SP10) is considered minimum. Proper blast media and blasting equipment shall be used to produce an average profile depth of 2.5 mils minimum. Do not reuse abrasive media. Remove blasting dust and grit from surfaces before painting. Blasted surfaces should be coated within 8 hours after blasting or before rusting or other contamination of the surface occurs. If blasting is not feasible, remove rust by "Hand or Power Tool Cleaning" (SSPC-SP2 or -SP3). **Galvanized Metal** - Remove oil and primer with Vinyl Wash Primer 9-42. **Aluminum** - Clean thoroughly and etch with phosphoric acid based cleaning solution. Rinse well and allow to dry. **Concrete** - Must be clean, dry, properly cured and free from all surface contaminants. "Brush-Off Blast" (SSPC-SP7) to provide an etched surface and to remove contaminants and laitance. Remove dust before coating. A prime coat of MoPoxY™ Mastic will penetrate concrete and is highly recommended to provide a good base coat prior to application of MoPoxY™ Mastic. When applying as a prime coat thin material up to 20%.

Previously Finished Surfaces - Repair all damaged areas. Remove gloss from previous paint by sanding or "Brush Blasting" (SSPC-SP7). Remove rust, corrosion products, heavy chalk and loose or peeling paint by "Hand or Power Tool Cleaning" (SSPC-SP2 or -SP3). Spot prime any bare areas as in new work above. If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (25 Square feet minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility. If there are no signs, coating work can proceed.

Mixing: This is a two component coating supplied in two containers as a unit. Always mix a complete unit in the

proportions supplied. (1) Mix the contents of (Component A) thoroughly with a power agitator. (2) Mix the contents of (Component B) thoroughly with a power agitator. (3) Combine the entire contents of Component A and Component B and mix thoroughly with a power agitator. Allow a 5 minute induction time before using the coating. Usable pot life depends on the temperature of the material. Pot Life is 2 hours if material and ambient conditions are 75°F and decreases with higher material or ambient temperatures. Agitate before use. Occasional stirring during use is suggested. As pot life expires, sag resistance may be reduced.

Thinning: Thin with up to 1/2 pint MoPoxY™ Spraying Thinner 75-37 per gallon if necessary for airless spray application or up to 1 pint MoPoxY™ Spraying Thinner 75-37 for conventional spray application.

Application: Spray application is preferred for proper film build and best performance. Brush application is acceptable for touch up. Roller application may require special care to prevent bubbling and may require more than one coat to attain proper film thickness. Apply at 7.4 mils wet film thickness to achieve 6.0 mils dry film thickness.

Equipment: Conventional spray - Devilbiss MBC gun with E tip and needle and 30 air cap or equivalent at 50 - 90 psi atomizing pressure and 10 - 35 psi pot pressure, 3/8" ID product hose, double regulated pressure pot with oil and moisture separator. Airless Spray - Minimum of 30:1 ratio pump, .017" - .027" tip, 3/8" ID Teflon material hose.

Note: During lunch, breaks or any period of work stoppage, material should be removed from hoses and equipment. Release pressure from equipment and flush hoses and equipment with MoPoxY™ Spraying Thinner 75-37. Do not repressurize equipment until ready to resume work.

Cleanup: Clean all equipment immediately after use with MoPoxY™ Spraying Thinner 75-37. Completely flush all spray equipment with this solvent. Occasional flushing of spray equipment during the course of the working day helps prevent buildup and possible clogging.

Safety: Safe storage, handling and use dictate that adequate health and safety precautions be observed with this product and any recommended thinners. User is specifically directed to consult the current Material Safety Data Sheet for this product as well as precautions contained on product labeling.

Notice: The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Mobile Paint Manufacturing Company's Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

40-AW-32(6/01)

LIMITED WARRANTY

The successful performance of this product is highly dependent on many factors beyond our control. Results are highly dependent upon the skill of the operator. This product is manufactured to meet the highest level of consistency and quality for the intended use. Mobile Paint warrants that its products meet the specifications which it sets for them. Should this product be proven to be off-specification within one year from date of shipment, Mobile Paint will, at its sole discretion, either replace the product or issue credit for the original purchase price of the product. The replacement or refund shall be the buyer's sole remedy and Mobile Paint and its affiliates **MAKE NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, DESIGN COMPATIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. LABOR OR COST OF LABOR AND OTHER INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.** The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.



PRODUCT DATA

**MOTHANE™ HD
Polyurethane Enamel
72-AW-21**

Aliphatic Acrylic Polyurethane

**PRODUCT
DESCRIPTION**

A two component, high performance, high gloss, aliphatic acrylic polyurethane coating.

TYPICAL USES

For industrial and commercial use as a high performance protective maintenance coating for industrial plants, pulp and paper mills, textile mills, chemical processing plants, waste water plants, refineries, food processing plants, pharmaceutical plants, commercial buildings and marine structures. For coating and protecting storage tanks, piping, roofs and roof decks, water towers, structural steel, machinery, plant equipment, marine vessels, offshore structures, transportation equipment and other surfaces exposed to humidity, chemicals and corrosive environments.

**PRODUCT
ADVANTAGES**

MOTHANE™ HD Polyurethane Enamel offers excellent protection in exposures including moderate to severe industrial, commercial and marine environments. Excellent resistance to fresh and salt water, detergents and most chemicals. Very good resistance to fumes and spillage of most organic solvents, acids and alkalis. Excellent abrasion and moisture resistance. Exceptional gloss and color retention on exterior exposure. Improved application properties. Temperature resistant to 250°F.

COLORS

White 72-AW-21 (Special colors available subject to minimum order).

GLOSS

High gloss

**PHYSICAL
CONSTANTS**

Nonvolatile - By weight - $58.0 \pm 1.0\%$ mixed *
By volume - $41.7 \pm 1.0\%$ mixed *
VOC (Calculated)- 4.11 lbs./gal. mixed *
492 grams/liter mixed *
Flash Point - (A) 80°F (B) 70°F (Setaflash)
Weight per gallon- 9.8 ± 0.2 lbs. mixed *
* Average - varies according to color

APPLICATION

Recommended Film Thickness - 2.5 mils dry, 6.0 mils wet
Theoretical Coverage @ 2.5 mils dry - 268 sq. ft./gal.
Method - Conventional or airless spray
Thinner - MOTHANE™ HD Thinner 43-EF-91
Cure time @ 75°F - To touch - 30 minutes
To handle - 4 hours
To recoat - 12 hours
Pot Life @ 75°F - 4 hours minimum

**SHIPPING &
STORAGE**

Consists of -	1 Gallon Unit	5 Gallon Unit
(A) 72-series	1 Gallon (SF)	5 Gallon (SF)
(B) 73-AF-7B	1 Quart (SF)	1 Gallon
(SF) = short filled		
Unit Shipping Weight	11 lbs.	53 lbs.

Shelf Life - 12 months minimum from date of manufacture when maintained in protected storage @ 40-100°F (subject to reinspection thereafter).

APPLICATION INSTRUCTIONS

Consult your Mobile Paint Representative for the protective coating system best suited for your requirements.

Limitations - Apply in good weather when air and surface temperature are above 50°F and surface temperature is at least 5°F above the dew point. Humidity must be below 90%. Conditions should be within these limits for the full curing time of the coating. Conditions of high humidity and/or low temperatures, especially with moisture condensing on the uncured paint film, will adversely affect the curing and gloss of the coating. For optimum application properties, material should be between 70° to 100°F prior to mixing and application. Maintain unmixed material in closed containers in protected storage at 40 - 100°F.

Surface Preparation - Good surface preparation is essential to a satisfactory coating system. Surfaces to be coated should be clean and dry. Remove all oil, grease, mildew, or other contamination by solvent or detergent cleaning or other effective means.

New or Unfinished Surfaces - Ferrous Metal: Follow preparation guidelines for recommended primer. Prime with MoPoxY™ Primer 513-10, MoPoxY™ HS Primer 613-10 or MoPoxY™ HB Primer 40-DR-5. **Galvanized Metal:** Follow preparation guidelines for recommended primer. Prime with Vinyl Wash Primer 9-42. **Concrete:** Follow preparation guidelines for recommended primer. Prime with MoPoxY™ HB 40-AW-13 **Aluminum:** Follow preparation guidelines for recommended primer. Prime with MoPoxY™ Primer 513-10, MoPoxY™ HS Primer 613-10, or MoPoxY™ HB Primer 40-DR-5.

Previously Finished Surfaces: Repair all damaged areas. Remove gloss from previous paint by sanding or "Brush Blasting" (SSPC-SP7). Remove rust, corrosion products, heavy chalk and loose or peeling paint by "Hand or Power Tool Cleaning" (SSPC-SP2 or -SP3). Spot prime any bare areas as in new work above. If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (25 square feet minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility. If there are no signs, coating work can proceed.

Tinting - Special Tint Bases are available for use with the Industrial Tinting System and should be used only after the addition of the proper amount of Industrial colorant. These Tint Bases may be short filled to allow for the addition of colorant. Actual coverage will depend on the amount of colorant added and should be taken into consideration when ordering. Some colors may require more than one coat for complete hiding. **DO NOT TINT WITH COLOR STUDIO COLORANT.**

Mixing - MOTHANE™ HD is supplied in 2 containers. Always mix a complete unit in the proportions supplied. (1) Agitate Part A with power agitator. (2) Combine entire contents of Part A and Part B 73-AF-7B and mix thoroughly with power agitator. Usable pot life depends on the temperature of the material. Refer to Pot Life section on front page.

Thinning - Material is supplied at airless spray viscosity and should not require thinning. If thinning is necessary, thin with up to 1 pint MOTHANE™ HD Thinner 43-EF-91 or MOTHANE™ Retarder 43-EF-80 per gallon.

Application - This product is designed for application by airless spray. Conventional spray is also acceptable. Brush application is considered for touch up of small areas. Apply 6.0 mils wet film thickness which will yield 2.5 mils dry film thickness.

Equipment - Airless spray: Minimum of 30:1 ratio pump, .011" - .013" tip, 3/8" ID Teflon material hose. Conventional spray: DeVilbiss MBC gun with E tip and 30 air cap or equal at 40 -45 psi atomizing pressure and 8 - 10 psi pot pressure, 3/8" ID product hose, double regulated pressure pot with oil and moisture separator. Brush: High quality bristle brush only.

Note - During lunch, breaks or any period of work stoppage material should be removed from hoses and equipment. Release pressure from equipment and flush hoses and equipment with MOTHANE™ HD Thinner 43-EF-91. Do not repressurize equipment until ready to resume work.

Cleanup - Clean all equipment immediately after use with MOTHANE™ HD Thinner 43-EF-91 or MIBK. Completely flush all spray equipment with either of these solvents. Occasional flushing of spray equipment during the course of the working day helps prevent buildup and possible clogging.

Safety - Safe storage, handling and use dictate that adequate health and safety precautions be observed with this product and any recommended thinners. User is specifically directed to consult the current Material Safety Data Sheet for this product as well as precautions contained on product labeling.

72-AW-21(11/03)

LIMITED WARRANTY

The successful performance of this product is highly dependent on many factors beyond our control. Results are highly dependent upon the skill of the operator. This product is manufactured to meet the highest level of consistency and quality for the intended use. Mobile Paint warrants that its products meet the specifications which it sets for them. Should this product be proven to be off-specification within one year from date of shipment, Mobile Paint will, at its sole discretion, either replace the product or issue credit for the original purchase price of the product. The replacement or refund shall be the buyer's sole remedy and Mobile Paint and its affiliates **MAKE NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, DESIGN COMPATIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. LABOR OR COST OF LABOR AND OTHER INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.** The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.