

CRAFTON COATINGS by Bollen International

TECHNICAL DATA – FERROXTONE-W

PRODUCT DESCRIPTION:

Ferroxtone-W is a green product for exterior /interior use. It has a low V.O.C. and is a non-flammable, water based, stainless steel emulsion coating for spray application only.

U.S.A. DISTRIBUTORS ARE: BOLLEN INTERNATIONAL, INC.

9218 Viscount Row, Dallas, TX 75247 - Tel: (214) 631-9300 Cust. Serv. (800) 248-4808, Fax: (214) 631-9302. Web site: www.craftoncoatings.com

VOC:

The V.O.C. value of Ferroxtone-W is <0.5 lbs/gallon or 63-grams per liter.

APPEARANCE:

Ferroxtone-W has a foundry-like metallic texture. Ferroxtone-W does not have color pigments. Metallic particles create color and texture. Standard colors range from dark gray to silver gray.

APPLICATION:

For use on exterior and interior surfaces. Especially effective on concrete, brick, and metal. When a topcoat is specified, use clear, water-based non-yellowing, polyurethane.

SURFACE PREPARATION:

Adhere to practices and procedures normally followed in the painting profession. Pay special attention to cleaning and preparing substrate before applying Ferroxtone-W. New construction should have a level 5-wall finish in order to eliminate imperfections from showing. **New drywall construction requires the use of stainless steel fasteners due to the product adhering to a magnetic field created by the magnetized Phillips bit on regular drywall screws.**

PRIMERS: USE OFF WHITE WATER BASED PRIMER. DO NOT TINT

Metal surfaces: Use a universal metal primer tinted to gray.

Painted surfaces: Scarify and clean surface to facilitate adhesion.

Vinyl/sheet rock/plaster: Use a primer/sealer that has good bite and good adhesion. **Plywood/unpainted wood:** Off-White tinted enamel undercoat. If wood has knots, sap stain, or bleeding dyes, first uses a proper sealer such as “Kilz” or “Zinsser” before applying primer. **Cinder Block:** Use block filler and then prime with flat latex water based primer tinted to off-white. **Paper backed wallpaper:** Remove.

Glass and Glazed Tile surfaces: Not recommended as a substrate surface.

DRYING TIME:

Sets to the touch in 1-2 hours, dries hard in 3-5 hours. Fully cured in 7 to 10 days at 70F. Re-coat in three (3) hours.

TEST AREA:

Always test Ferroxtone-W before proceeding with the final application. Spray Ferroxtone-W on a test area in order to confirm the condition of the substrate and to assure that texture and color, as applied, is consistent with specified standard and approved by architects and principals. Test area should also give contractor confirmation of his calculated spread rate per gallon.

Ferroxtone-W Technical Data

INSTALLATION:

DO NOT THIN

MECHANICALLY AGITATE IN BUCKET BEFORE POURING INTO PRESSURE POT

Ferroxtone-W must be sprayed by using a pressure pot WITH AN INTERNAL MECHANICAL AGITATOR, and a spray gun that has an external mix air cap. DO NOT INTERRUPT SPRAYING. DO NOT BRUSH, ROLL, OR USE AIRLESS EQUIPMENT WITH THIS PRODUCT.

**SPRAY EQUIPMENT:
SEE ATTACHED SPRAY GUIDE LINES**

COVERAGE:

Ferroxtone-W over proper primer 120-125 sq. ft. per gallon in 2-passes, first horizontal then vertical with a **4 to 5-inch** overlap.

Ferroxtone-W over brick/concrete 80-120 sq. ft. per gallon in 2-passes.

CLEAN UP AND MAINTENANCE:

Clean all lines, immediately after use, with water. If allowed to dry, use lacquer thinner to clean. Most marks and scuffs are removable with a soft brush and mild solution of soap, Fantastic, or 409 all-purpose cleaner. Remove stains that are more difficult with a soft brush using denatured alcohol. Conduct scrub tests no sooner than ten days after the installation of the test area is completed.

TOUCH UP:

Touch up with the same equipment used for the actual installation. When there are larger damaged areas, please consult with our Customer Service Department, telephone (800) 248-4808.

STORAGE:

Prevent from freezing. Store in sealed containers at 50–100 degrees Fahrenheit. Under these conditions, your maintenance stock will have a shelf life of a minimum of two-years in unopened containers.

WARRANTY

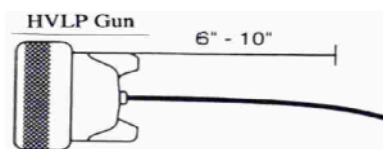
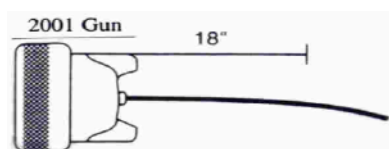
We offer the information and recommendations in this technical data sheet in good faith. The contents are based on information we believe to be reliable. However, because the conditions and method of use of our products are beyond our control, the Ferroxtone-W products are sold without warranty, either expressed or implied. Users of Ferroxtone should conduct their own tests to determine the suitability of each product for their own particular purpose.

Ferroxtone-W Technical Data

SPRAY APPLICATION GUIDE LINES

Spray on with an air atomizing spray gun:

The basic function of an air atomizing spray gun is to use compressed air to break up material into small droplets and give these droplets direction. A rule of thumb to follow when setting pressures is that with the air supply cut off, the paint will flow in a solid stream. This fluid stream should begin to bend down about 18" from the gun's nozzle. Anything in excess of 18" could mean too high a fluid velocity/pressure.



ATOMIZATION PRESSURE:

Apply adequate pressure to achieve desired spray pattern.

The following represents general guidelines for spray application and should be field tested

COMMERICAL SPRAY GUN:

Equal to Binks 2001, requires a #565 needle with a #66 fluid nozzle and a 66-SD external air cap, with air source capable of maintaining 7 to 13.5 CFM and 60 PSI at the gun with the trigger pulled using 45 PSI for fluid and 60 PSI for air. Use a belt driven compressor with a minimum 3½ horsepower.

2001 HVLP SPRAY GUN:

When using either the 2001 HVLP or the Mach-1 HVLP gun with a 93-P external air cap and a 97 fluid nozzle use air source capable of maintaining 9-22 CFM and 18-30 PSI at the gun with the trigger pulled using 45 PSI for fluid and 18-30 PSI for air. Use a belt driven compressor with a minimum 3½ horsepower. The needle for the 2001 HVLP is a 197-S and for the Mach-1 HVLP gun the needle is 54-3941.

Spray in a slow controlled motion, using an eight-inch fan pattern. Overlap 50% (every 4 or 5 inches). First spray horizontal then cross out vertical to achieve 100% coverage. When using a conventional gun, the distance from the wall should be approx. 12 to 15 inches. When using an HVLP gun the distance from the wall should be approx. 8 to 10 inches.

We suggest you field-test the above recommendations.

**USE A PRESSURE POT WITH CONTINUAL INTERNAL AGITATION IN ORDER TO
KEEP THE
STAINLESS STEEL PARTICLES IN SUSPENSION.**

FERROXTONE CSI SPECIFICATION

If you have additional questions please call our customer service at: 800-248-4808.

FERROXTONE CSI SPECIFICATION

SECTION 09809

MULTI-COLOR EXTERIOR/INTERIOR COATING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Bidding Requirements, Contractual Conditions and General Requirements of Division One shall apply to all work hereunder.

1.02 SCOPE

- A. Work under this section includes the furnishing and installation of FERROXTONE-W coatings as noted within the finish schedule.

1.03 RELATED SECTIONS

- A. Section 09250 - Gypsum Wallboard
- B. Section 09900 - Painting
- C. Section 09220 - Portland cement plaster/stucco
- D. Section 09545 - Special ceiling surfaces

1.04 SUBMITTALS

- A. Spray out of each color , at least 4" x 4" in size.
- B. Manufacturer's recommendations for application, maintenance and finish repair.
- C. Manufacturer's technical data sheets should be the most current available at time of purchase.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Ferroxtone-W products are manufactured by Bollen International, Inc.
- B. Other products or those suggested to be equal are not allowed unless the substitution is approved by Specifier prior to bidding.
- C. Ferroxtone-W products are distributed by Bollen International Inc., Dallas, Texas. Tel(214) 631-9300 - Fax (214) 631-9302
Cust. Serv. (800) 248-4808.

FERROXTONE CSI SPECIFICATION

PART 2 – PRODUCTS

Continued

2.02 MATERIALS

- A. Top coat to be Ferroxtone-W, a metallic wall coating for exterior or interior use. See section 2.03 “Product Requirements.”
- B. Materials to be delivered in sealed containers with Manufacturer’s current Technical Data sheets, Material Safety Data sheets and labels intact.
- C. Store materials in dry, temperature controlled conditions. Prevent from freezing.

2.03 PRODUCT REQUIREMENTS

A. FERROXTONE-W

- 1. Type and color as specified by Architect. Specify interior or exterior
- 2. Water-based emulsion metallic coating, odorless, suitable for spray application. EPA compliant
- 3. Coverage:
 - Sprayed over tinted primer - 1 coat: 130 sq.ft. per gallon
 - over concrete and brick - 2 coats: 80 - 120 sq.ft. per gallon
- 4. Fire Safety: Non- flammable
- 5. Drying Time: Sets to the touch in 1½ hours, dries hard in 3-hours. Fully cured in 7 days at 70 F.
Re-coat in 1½ hours.
- 6. Toxicity: Water based - no toxins.
- 7. Flexibility: No cracking when bent around 1/8" mandrel.
- 8. Mold/Mildew: No visible growth in medium.
- 9. Odor: No detectable odor. No evacuation required during application
- 10. V.O.C.: VOC not to exceed 60 grams per liter or 0.5 lbs per gallon.
- 11. Cleaning: Remove marks and scuffs with mild solution of soap and water
and a soft brush.
- 12. Surface texture: Metallic foundry-like texture.

PART 3 – EXECUTION

3.01 PRE-WORK INSPECTION

- A. Examine surfaces to be coated and report any conditions which would adversely affect the coverage, appearance or performance of the coating system.

FERROXTONE CSI SPECIFICATION

PART 3 – EXECUTION

Continued

- B. Proceed with surface preparation and application only after surface is acceptable or authorization has been given by the Specifier Architect and/or Designer.

3.02 JOB CONDITIONS

- A. Apply coating only under the following prevailing conditions:
 1. Air and Surface temperature not below 45 degrees F.
 2. Do not apply the Ferroxtone-W when humidity is high enough to cause surface condensation or when temperatures fall below 41°F during drying period.
 3. All dust to be removed from all surfaces to be painted.
 4. All material shall be applied under adequate lighting and weather conditions.

3.03 SURFACE PREPARATION

- A. Practices and procedures, normally followed in the painting profession, should be adhered to, with special reference to cleaning and preparing of substrate surfaces prior to the application of Ferroxtone-W.
 1. Before applying Ferroxtone-W, thoroughly clean all surfaces involved. Schedule all cleaning so that dust and other contaminants from the cleaning process do not fall on wet, newly coated surfaces.
 2. Surfaces shall be free of any foreign materials which would adversely affect adhesion or appearance of the applied coating.
- B. Before coating is applied, surfaces shall be tested with a moisture-testing device. No coating shall be applied when moisture content exceeds 12%. Test sufficient area in each space and as often as is necessary to determine the proper moisture content for application.
- C. Primers and Sealers: All substrates, must be properly sealed and primed before applying the Ferroxtone-W top coating. If substrate is painted, scarify surface to facilitate adhesion. Metal substrates use a tinted (**gray**) universal flat metal primer.

FERROXTONE CSI SPECIFICATION

PART 3 – EXECUTION

Continued

- D. Metals which are shop coated, unprimed or damaged, should be cleaned to meet the requirements of the Steel Structures Painting Council SP-3 Power-tool cleaning and primed in accordance with these specifications.
- E. Drywall, Plaster, Concrete and Masonry substrate surfaces should be thoroughly inspected to assure that they are in proper condition.
- F. If wood has knots, sap stains or bleeding dyes, a proper sealer must be used before priming.
- G. Walls with paper backed wallpaper should be stripped first.
- H. Paint-Contractor shall sand and re-prime all abrasions and damaged spots in the surface of the prime coat before starting application of the Ferroxtone-W top coat.
- I. Mildew, if any, shall be removed and neutralized.

3.04 APPLICATION

- A. Follow manufacturer's recommendations carefully so as to provide the best quality work. Contractor shall confirm with manufacturer that the recommendations data specifications in hand, are the most current available.
- B. DO NOT THIN FERROXTONE-W**
- C - 1 Do not use a brush or airless spray equipment to apply Ferroxtone. SEE ATTACHED SPRAY GUIDE LINES. C - 2** Spraying operation cannot be interrupted.
- C - 3 Mixing :** A mechanical agitator must be used when Mixing. Use a pot with an **internal mechanical agitator.**
- C - 4** All materials shall be applied under adequate lighting, free of sags, holidays, lap marks, and pin holes to assure a proper finish top coat.
- C - 5 Clear Coat:** A non-yellowing polyurethane, is recommended in high traffic areas to prevent scratching and scarring the surface.

3.05 QUALITY ASSURANCE

- A. Always test Ferroxtone-W prior to proceeding with the final application. Apply to a test area in order to confirm the condition of the substrate and also to assure that:
 - 1. Texture and color is consistent with the standard, specified by Architects/Designers and Principals.
 - 2. Coverage is in accordance with Painter/Contractors'

FERROXTONE CSI SPECIFICATION
calculations.

QUALITY ASSURANCE
Continued

- B. Test areas to be left in place as a part of the completed project.
- C. Upon Specifier Architect's/Designer's approval, test areas to serve as standard for all work.
- D. Touch-up and repair all work unacceptable to the Specifier until final acceptance.
- E. Contractor will allow Architect or Agent to inspect on-site work for the purpose of quality assurance to the Specifier and End-user, Principal.
- F. Should the finished coat be deemed unsatisfactory, it shall be re-coated until a full and satisfactory finish is achieved.

3.06 CLEANING

- A. Remove overspray from glass and adjoining surfaces.
- B. Repair any damage to coatings or surfaces caused by cleaning operations.
- C. Remove debris from job site and leave storage areas clean.

END OF SECTION

BOLLEN INTERNATIONAL, INC.

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214-631-9300

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FERROXTONE-W

Primers:

Metal substrates must be properly primed before applying the Ferroxtone-W. Use a tinted (gray) universal flat metal primer. Do not use a reddish brown primer with Ferroxtone-W.

A suggested product: *Sherwin Williams* - Kem Kromick Metal Primer, # B50W21 – White or, any equal.

Following normal practices and procedures of the painting profession will ensure a good quality application. Surface must be dry and free of all oil, rust, and any foreign materials, which would adversely affect adhesion or appearance of the applied coating.

Top Coating:

Exterior applications require no top coat. The natural elements clean Ferroxtone-W. Applying a top coat will negate the Ferroxtone properties.