



MONOBOND DIRECT-TO-METAL PRIMER (RI)

MONOBOND DIRECT-TO-METAL (RI) is a waterborne, acrylic primer designed for most interior and exterior metal surfaces. This high performance primer provides excellent adhesion with added corrosion and rust protection. Monobond Direct-To-Metal can be used on most vertical and horizontal metal surfaces making it an excellent solution for doors, trim, gates, fences, handrails, stairs, walkways and much more. Available in a White or Neutral tint base for a full range of color options.

FEATURES:

Excellent Adhesion
Corrosion Resistant
Flash Rust Inhibitive
Fast Dry & Recoat
USDA Complaint
Low Odor & VOC

BUILT FOR:

Interior & Exterior
Vertical & Horizontal
Metal Surfaces

Topcoat with Latex or
Alkyd Finishes

BEST ON:

Steel
Iron
Galvanized
Aluminum

SPECIFICATIONS:

Composition:	Acrylic
Vehicle:	Water
VOC (ASTM D6886):	< 100 g/L
Solids by Weight:	White 52% ± 2 Neutral 41% ± 2
Solids by Volume:	White 42% ± 2 Neutral 34% ± 2
Shelf Life:	18 Months

AVAILABLE PRODUCTS:

MFG Codes:	1890 White 1880 Neutral
Finishes:	White - Flat Neutral - Flat
Tint Capacity: <i>Waterborne Colorants</i>	White - 0-2 oz / gal Neutral - 4-6 oz / gal
Sizes:	1 Gallon, 5 Gallon

MEETS VOC REQUIREMENTS:

CAL Green	YES
SCAQMD	YES
CARB	YES
National AIM	YES
Green Seal GS-11	YES
LEED v4 v5	YES

PREPARATION:

All surfaces must be cured, firm and dry. Use suitable cleaners to remove all dirt, efflorescence, oil or other contamination. Sand glossy surfaces and remove dust (See **WARNING!**) See full 'Preparation' instructions on the following pages.

APPLICATION:

Brush:	Synthetic Bristle
Roll:	Synthetic Nap - 1/4" - 3/8"
Spray:	2000 PSI; 0.009" - 0.015" Tip

Primer – 1 Coat:

Monobond Direct-To-Metal Primer

Topcoat – 2 Coats:

Monochem Product or Similar Latex or Alkyd

All Surfaces:

Topcoat Monobond Direct-To-Metal Primer after 2-3 hours and before 6 hours to avoid rust contamination.

Temperature:	40°F - 90°F Air, Surface, & Material
Film Thickness:	3-5 Wet Mills 1.5-2.5 Dry Mills
Coverage:	250-400 Sq. Ft. / Gal
Drying Time: @75°F; 50% R.H.	1 Hour Dry-to-Touch 2-3 Hours Recoat <i>Topcoat within 6 Hours</i>
Thinning:	Not Recommended
Clean Up:	Water

See following pages for detailed preparation and application instructions.

PREPARATION & APPLICATION:





MONOBOND

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BEFORE APPLICATION

GENERAL PREPARATION: 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 (see **WARNING!**). Protect surrounding areas, shrubbery, plants, grass, glass, metal and other glazed surfaces.

METAL: Remove all loose rust, mill scale, or deteriorated previous coatings by Hand Tool (SSPC-SP-2) or Power Tool (SSPC-SP-3) cleaning. Wash surface with TSP or other suitable cleaner or degreaser to remove oil and contaminants. Apply an etching solution to bare surfaces. Rinse thoroughly. Prime the surface as soon as it dries.

NEW & BARE SURFACES: Prime surfaces following recommendations on page 1.

PREVIOUSLY PAINTED SURFACES: Remove any peeling, chalky or loose paint, sand to feather edges, and dust clean. Spot prime bare and patched areas. When making a significant color or sheen change, a pigmented primer is recommended to improve hide and appearance of the topcoat.

MOISTURE: All surfaces should be dry before application. Wood should have moisture content < 15%. Blistering and peeling caused by moisture intrusion is not a defect of the coating and would not be covered by warranty.

STAIN BLOCKING: When painting over stains or tannins, an appropriate stain blocking primer is recommended before top coating.

PATCHING & CAULKING: Caulk and fill cracks, holes, voids, etc. larger than 1/16". Patching and caulking should be allowed to fully dry, then the finish coating system applied. Coating over flexible patch or caulking or in areas with substrate movement may cause cracking of the topcoat.

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

THINNING: Apply at can consistency. Do not thin.

CONTAINERS AND TOOLS: Transfer material into a clean container for 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. Clean tools immediately after use while material is fresh.

DURING APPLICATION

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 Monopole representative for recommendations.

GENERAL PAINTING: Apply two separate finish coats to create even color, uniform sheen, maximum durability and easier touch-up. Maintain a wet edge while painting.

COVERAGE: May vary depending on method of application, porosity and texture of the surface. Measure estimated coverage during the test application.

FILM THICKNESS: Always follow recommendations for application thickness on page 1. Over application may reduce performance and can lead to runs, extended dry times, a soft film, or a white haze (clear coatings).

WEATHER: Apply product only when material, air, and surface temperature are within the recommendations on page 1 and will remain above that temperature for at least 24 hours. Temperatures must remain 5° above the dew point during application and dry time. Do not expose to rain, fog, snow or any moisture during application or dry time. Limit exposure to heavy moisture for 24-48 hours after application.

BACKROLLING: While spraying, follow with a wet roller to ensure an even coat and fill in porous surfaces. This will reduce pinholes, create uniform sheen and make for easier touch-up.

RECOATING: Always follow recommendations for recoat times on page 1. Recoating too soon or too long after application may reduce performance and can lead to adhesion loss, improper cure or a soft film.

AFTER APPLICATION

DRYING: Dry times are based on standard conditions of 75°F 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 application.

STORAGE: Store material at room temperature in a clean, tightly sealed container free of rollers, brushes, or other outside materials. Protect from freezing.

CURE: Architectural coatings require up to 30 days after final application for full cure and maximum performance. Cure times vary depending on environmental conditions and air circulation.

CLEANING: Wait until at least two weeks after final application. Clean with fresh water and a cotton cloth. A small amount of mild detergent can be used, if necessary.





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PERFORMANCE TESTS:

Adhesion (ASTM D3359)	5B
Pencil Hardness (ASTM D3363)	F/H
Impact Resistance (ASTM D2794)	250 in/lbs

Dry Heat Resistance (ASTM D2485)	325°F
Salt Fog Resistance (ASTM B117)	500 Hours
Flexibility (ASTM D522)	180° / ½" Mandrel

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.

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, Monopole, 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 Monopole, Inc.'s quality control standards. Any liability whatsoever of Monopole, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

