

Product Description

MC-Miozinc has a unique pigment combination of zinc and micaceous iron oxide (MIO), which provides both galvanic and barrier protection to properly prepared steel surfaces. It is a surface tolerant primer that can be applied to wet and dry abrasive blast, hydro-blast and hand and power tool cleaned substrates. It is the ideal primer for pitted steel or steel with complex geometry and is especially effective when overlapping onto existing coatings for spot prime applications.

Area of Use

Substrates

Over properly prepared:
 Ferrous Metal
 Corten Steel
 Galvanized Metal
 Ductile Iron

Possible Uses

Bridges
 Tank Exteriors
 Material Handling Equipment
 Pulp and Paper Mills
 Chemical Processing Facilities
 Hydropower Facilities
 Water and Wastewater Treatment Facilities

Food Processing Facilities
 Structural Steel
 Work Boats
 Refineries
 Marine/Port Facilities
 Offshore Platforms
 Pipes

Ready Reference Information

Resin Type: Urethane
Pigment type: Zinc – 60-75% Zinc in the dry film and Micaceous Iron Oxide
Sheen: Flat
Colors: Standard Green
Volume Solids: 62.0% ± 2.0
VOC: < 2.8 lb/gal (340g/l)
 (Volatile Organic Content)

Theoretical Coverage: At 1 mil DFT: 994 ft²/gal
 At 25 µm DFT: 24.4 m²/l

Recommended Film Thickness:

Wet: 4.8-8.0 mils (122-203 microns)
Dry: 3.0-5.0 mils (76-127 microns)

Recommended Coverage Per Coat:

199 ft²/gal at 5.0 mils DFT - 331 ft²/gal at 3.0 mils DFT
 (4.87 m²/l at 127 microns DFT - 8.10 m²/l at 76 microns DFT)

Thinning: MC-Thinner, MC-Thinner 100, MC-Thinner XMT
Clean Up: MC-Thinner, MC-Thinner 100, MC-Thinner XMT

Drying Times and Temperatures

*At 50% Humidity	50°F/10°C		75°F/24°C		95°F/35°C	
	Without PURQuik®	With PURQuik®	Without PURQuik®	With PURQuik®	Without PURQuik®	With PURQuik®
Tack Free	1 hour	--	30 minutes	--	20 minutes	--
Recoat Minimum ¹	6 hours	1 hour	4 hours	30 minutes	3 hours	20 minutes
Full Cure	10 Days	7 days	7 days	5 days	5 days	4 days

*Humidity, temperature and coating thickness will affect recoat and curing times

¹No outer recoat window on clean surfaces.

Refer to Wasser's PURQuik® Accelerator Product Data for additional information

Product Features

- Single component Moisture Cure Urethane
- No mixing errors – no pot life
- Zinc stays in solution – no need for continuous agitation
- Easy to apply by brush, roller or spray methods
- Low VOC
- Immersion and non-immersion service
- Impact and abrasion resistant
- MIO re-enforced film – maintains build on edges, threads and weld seams
- Can be applied at 99% relative humidity
- Can be applied in below freezing temperatures (no ice or frost)
- No dew point restrictions (substrate must be visibly dry)
- No outer recoat window on clean surfaces
- Compatible with PURQuik® Accelerator for faster recoat and cure times
- Surface tolerant Zinc Primer

Recommended Systems

Ferrous Metals (New Construction / Full Removal):

1 st Coat: MC-Miozinc	3.0-5.0 mils DFT
2 nd Coat: MC-Ferrox B	3.0-5.0 mils DFT
3 rd Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Total System DFT:	8.0-14.0 mils DFT

Ferrous Metals (Overcoat):

1 st Coat: MC-Miozinc (Spot Prime)	3.0-5.0 mils DFT
2 nd Coat: MC-Miomastic	3.0-5.0 mils DFT
3 rd Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Total System DFT:	8.0-14.0 mils DFT

Ferrous Metals (Immersion):

1 st Coat: MC-Miozinc	3.0-5.0 mils DFT
2 nd Coat: MC-Tar	5.0-7.0 mils DFT
3 rd Coat: MC-Tar	5.0-7.0 mils DFT
Total System DFT:	13.0-19.0 mils DFT

Ferrous Metals (Ballast Tank):

1 st Coat: MC-Miozinc	3.0-5.0 mils DFT
2 nd Coat: MC-Tar	5.0-7.0 mils DFT
3 rd Coat: MC-BallastCoat	3.0-4.0 mils DFT
Total System DFT:	11.0-16.0 mils DFT

1 st Coat: MC-Miozinc	3.0-5.0 mils DFT
2 nd Coat: MC-Ballast Coat	3.0-4.0 mils DFT
3 rd Coat: MC-Ballast Coat	3.0-4.0 mils DFT
Total System DFT:	9.0-13.0 mils DFT

Weathered/Galvanized Metal:

1 st Coat: MC Miozinc (spot prime)	3.0-5.0 mils DFT
2 nd Coat: MC-Ferrox B	3.0-5.0 mils DFT
3 rd Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Total System DFT:	8.0-14.0 mils DFT

*Other Systems are available. Contact your Wasser Representative to answer any questions.

Performance Testing Data

System: MC-Miozinc
MC-Ferrox B
MC-Luster
@75°F and 50% RH 7 day min. cure

Abrasion Resistance: (ASTM D4060 – CS-17 Wheel, 1,000 cycles/kg load)
147 mg loss

Adhesion: (ASTM D4541)
1780 psi

Impact: (ASTM 2794)
Direct: 130
Reverse: 20

Prohesion: (ASTM G85 @ 5000 hrs)
Blistering: None
Scribe Rate: 9.5

Dry Heat Resistance:
Continuous: 250°F (120°C)

*Contact a Wasser Representative for detailed testing of this product

Compatible Coatings

Intermediates:

MC-Ferrox B 100	MC-Ferrox B 2.8
MC-Miomastic 100	MC-Miomastic 2.8
MC-CR 100	MC-CR 2.8
MC-Tar 100	MC-Tar 2.8

Topcoats:

MC-Ferrox A 100	MC-Ferrox A 2.8
MC-Luster 100	MC-Luster 2.8
MC-Shieldcoat 100	MC-Shieldcoat 2.8
MC-BallastCoat	

Polyflex 102 Rapid Thane
Polyflex 201 PW
Polyflex 202 High Chem
Polyflex 401 Polar Serve

Coating Accelerator:

PURQuik® Coating Accelerator

Surface Preparation

Ferrous Metal

Use SSPC-SP1 solvent cleaning to remove oil and grease or other contaminants prior to employing surface preparation methods.

Blast Clean surfaces for immersion or severe service projects to SSPC-SP10/NACE No. 2 Near White Metal finish.

Prepare surfaces for non-immersion or atmospheric service projects to SSPC-SP6/NACE No. 3 Commercial Blast Clean finish. For minimum surface preparation use conscientious power tool cleaning methods in accordance with SSPC-SP3 to remove corrosion and loose or failing paint (feather edges of sound, existing paint back to a firm edge).

Blast cleaning methods should produce a surface profile of 1.0 - 2.0 mils (25-50 microns).

Corten Steel

Prepare surfaces using SSPC-SP12/NACE No. 5 Low Pressure Water Cleaning methods. Supplement SSPC-SP 12 LPWC with SSPC-SP2 and SSPC-SP3 Hand and Power Tool cleaning where areas show excessive corrosion. Use SSPC-SP1 solvent cleaning to remove oil and grease prior to surface preparation methods.

Galvanized Metal

Prepare surfaces using SSPC-SP1 Solvent Cleaning and SSPC-SP12/NACE No. 5 Low Pressure Water Cleaning methods to remove surface contamination. Supplement weathered galvanized surface preparation with SSPC-SP2 and SSPC-SP3 Hand and Power Tool cleaning to remove excessive corrosion and impart surface profile on bare metal. Supplement new galvanized surface cleaning with mechanical abrasion to impart surface profile and support mechanical adhesion.

Good Practices

The surface to be coated must be dry, clean, dull, and free from dirt, grease, oil, rust, mill scale, salts or any other surface contaminants that interfere with adhesion.

Ensure welds, repair areas, joints, and surface defects exposed by surface preparation are properly cleaned and treated prior to coating application.

Areas of oxidation after surface preparation and prior to coating application should be prepared to specified standard.

Consult the referenced standards, SSPC-PA1 and your Wasser Representative for additional information or recommendations.

Application Information

MC-Miozinc can be applied by brush, roll, airless spray and conventional spray application. Follow proper mixing instructions before applying.

Mixing:

Material temperature must be 5° F above the dew point before opening and agitating.

Power mix thoroughly prior to application.

Do not keep under constant agitation.

Apply a 3-6 oz solvent float over material to prevent moisture intrusion and cover pail.

Reducer: MC-Thinner, MC-Thinner 100, (if VOC regulations restrict thinning, use MC-Thinner XMT).

Reduction is typically not required. If necessary, thin up to 10% with recommended thinner. Thin in accordance with local and federal regulatory standards.

Brush/Roller:

Brush: Natural Fiber

Roller: Natural or synthetic fiber cover

Nap: ¼" to ⅜"

Core: Phenolic

Reduction: Typically not required. If necessary, reduce with MC-Thinner 100.

Clean up: MC-Thinner, MC-Thinner 100.

If Wasser thinners are not available, use MEK, MIBK, Xylene, a 50:50 blend of Xylene and MEK or MIBK, or acetone for clean up only. Do not add unauthorized solvents to a Wasser coating.

Airless Spray:

Pump Ratio: 28 - 40:1

Pressure: 2400 - 2800 psi

Hose: ¼" to ⅜"

Tip Size: .013 - .019

Filter Size: 60 mesh (250 µm)

Reduction: Typically not required. If necessary, reduce with MC-Thinner or MC-Thinner 100.

Application Conditions

Temperature: 20° - 120° F (-8° - 49° C)

This temperature range should be achieved for ambient, surface and material temperature. Substrate must be visibly dry. MC-Thinner 100 is recommended for spray application in temperatures above 90°F.

Relative Humidity: 6% - 99%

Coating Accelerator: PURQuik® Accelerator.

See Wasser's PURQuik® Accelerator Product Data for information.

Conventional Spray: (DeVilbiss MBC, JGA or equivalent)

Fluid Nozzle: E Fluid Tip

Air Cap: 704 or 765

Atomizing Air: 45 - 75 lbs.

Fluid Pressure: 15 - 20 lbs.

Hose: ½" ID; 50' Max

Reduction: Typically not required. If necessary, reduce with MC-Thinner or MC-Thinner 100.

Storage: Store off the ground in a dry, protected area in temperature between 40 - 100°F (4 - 38°C). MCU containers must be kept sealed when not in use. Use a solvent float to reseal partial containers

Certifications and Qualifications

VOC Compliant (National Standards – Industrial Maintenance Coating)

Qualified for use in USDA and FDA inspected facilities

Ordering Information

Product Numbers: W03.4 **Standard Green**
W03.0413 **Grey**

Package Size: 1 gallon and 3 gallon pails

Shelf Life: 12 months from date of shipment when stored unopened at 75°F (24°C)

Shipping Information

Flash Point:	75.2°F (24°C)
Weight/gallon:	20.6 ± 1.0 lbs.
DOT HAZARD CLASS	3
DOT PACKAGING GROUP	III
DOT LABEL	FLAMMABLE LIQUID
DOT SHIPPING NAME	PAINT
DOT PLACARD	FLAMMABLE LIQUID
UN/NA NUMBER	1263

Safety Precautions

DANGER!

VAPOR AND SPRAY MIST HARMFUL. OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION, EFFECTS MAY BE PERMANENT, MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. FLAMMABLE LIQUID AND VAPOR.

CONTAINS: Petroleum Distillates, Xylene, Ethylbenzene, Modified MDI, Modified Polymeric MDI, 4,4'-Diphenylmethane Diisocyanate

NOTICE: Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR REACTION TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR OR SPRAY MIST. **Use Only With Adequate Ventilation.** Do not breathe dust, vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Keep away from heat, sparks and flame. Vapor may cause flash fire.

KEEP OUT OF REACH OF CHILDREN

FIRST AID: If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. If swallowed, do not induce vomiting. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes. Keep container closed when not in use. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Obtain and Read the Material Safety Data Sheet Before Using.

INTENDED FOR PROFESSIONAL USE ONLY.

W03.4

Note: Ingredients and VOC/VOS may vary for products with catalysts, tint bases, and other colors

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