

## Product Description

This is Wasser's premium, surface tolerant intermediate coating. MC-Miomastic is a blend of micaceous iron oxide (MIO) and corrosion inhibiting pigments that is unique to Wasser moisture-cure urethane technology. It is designed for application to moisture-cure and most old, conventional coatings. The plate-like structure of the MIO in this product provides maximum surface tolerance by its ability to overlap most conventional coatings without compromise to its existing adhesion characteristics to the substrate. It's an ideal product for use in red lead overcoat systems.

## Area of Use

### Substrates

Over properly prepared:  
 Ferrous Metal  
 Galvanized Metal  
 Aluminium/Non-Ferrous Metal  
 Previously Existing Coatings

### Possible Uses

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

Structural Steel  
 Food Processing Facilities  
 Refineries  
 Hydropower Facilities  
 Offshore Platforms  
 Splash Zones

## Ready Reference Information

**Resin Type:** Urethane  
**Pigment type:** Micaceous Iron Oxide and proprietary blend  
**Sheen:** Flat  
**Colors:** Red Oxide  
**Volume Solids:** 62.0% ± 2.0  
**VOC:** < 2.8 lb/gal (340 g/l)  
 (Volatile Organic Content)

**Theoretical Coverage:** At 1 mil DFT: 994 ft<sup>2</sup>/gal  
 At 25 µm DFT: 24.4 m<sup>2</sup>/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 ft<sup>2</sup>/gal at 5.0 mils DFT - 331 ft<sup>2</sup>/gal at 3.0 mils DFT  
 (4.87 m<sup>2</sup>/l at 127 microns DFT - 8.11 m<sup>2</sup>/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 <sup>1</sup>	8 hours	1 hour	6 hours	30 minutes	4 hours	20 minutes
Full Cure	10 Days	7 days	5 days	5 days	5 days	4 days

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

<sup>1</sup>No 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
- Maintains build on edges, threads and weld seams
- Easy to apply by brush, roller or spray methods
- Low VOC
- Resists peeling and delamination
- Designed for use over most existing coatings including epoxy, vinyl, alkyd, phenolic and red lead
- 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

## Recommended Systems

### Ferrous Metals (Overcoat):

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

### Ferrous Metals (Full Removal):

1 <sup>st</sup> Coat: MC-Zinc	3.0-5.0 mils DFT
OR MC-Miozinc	
2 <sup>nd</sup> Coat: MC-Miomastic	3.0-5.0 mils DFT
3 <sup>rd</sup> Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Total System DFT:	8.0-14.0 mils DFT

### Galvanized Metal:

1 <sup>st</sup> Coat: MC-Miomastic	3.0-5.0 mils DFT
2 <sup>nd</sup> Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Total System DFT:	5.0-9.0 mils DFT

**Note: Use as an intermediate over recommended primers for ferrous metal. Not recommended for direct to ferrous metal applications.**

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

## Performance Testing Data

**System\*:** MC-Miozinc  
MC-Miomastic  
MC-Ferrox A  
\*At 75°F and 50% RH 7 day min. cure

**Abrasion Resistance:** 236 mg loss  
(ASTM D4060 – CS-17 Wheel, 1,000 cycles/kg load)

**Prohesion:** Blistering: None  
(ASTM G85 @ 5000 hrs) Scribe Rate: 8.0

**Adhesion:** (ASTM D4541)  
1510 psi

**Impact:** (ASTM 2794)  
Direct: 160  
Reverse: 20

## Dry Heat Resistance:

Continuous: 250°F (120°C)

\*Contact Wasser Corporation for detailed testing of this product

## Compatible Coatings

### Primers:

MC-Zinc 100	MC-Zinc 2.8
MC-Miozinc 100	MC-Miozinc 2.8
MC-Prepbond 100	MC-Prepbond 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-Tar 100	MC-Tar 2.8
MC-Ballastcoat	

Polyflex 102 Rapid Thane

### Coating Accelerator:

PURQuik<sup>®</sup> Coating Accelerator

## Surface Preparation

### Ferrous Metal

Apply to clean, dry, Wasser recommended primers. Refer to the primer Product Data for additional information.

### Aluminum/Galvanized/Non-Ferrous Metals

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. Spot prime clean, bare metal with Wasser recommended primer. Supplement new galvanized surface cleaning with mechanical abrasion to impart surface profile and support mechanical adhesion.

### Previously Existing Coatings

Prepare surfaces using SSPC-SP12/NACE No. 5 Low Pressure Water Cleaning methods to remove surface contamination. Supplement SSPC-SP 12 LPWC with SSPC-SP1 Solvent Cleaning and SSPC-SP2 and 3 Hand and Power Tool clean areas of corrosion and loose or flaking paint (feather edges of sound, existing paint back to a firm edge). Spot prime clean, bare metal with Wasser recommended primer. Sand glossy surfaces to provide profile. Apply a test sample to a small area to determine coating compatibility.

### Good Practices

MC-Miomastic is designed for application to tightly adhering, previously existing coatings. Apply a test sample to a small area

to determine coating compatibility. Spot prime any areas cleaned to bare metal with a Wasser recommended primer.

New or weathered galvanized surfaces will accept MC-Miomastic as a prime coat when surfaces are properly prepared. Spot prime any areas cleaned to bare metal with a Wasser recommended primer.

The surface to be coated must be dry, clean, dull, and free from dirt, grease, oil, heavy rust, 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.

When surfaces are cleaned to bare metal, areas of oxidation after surface preparation and prior to coating application, should be prepared to specified standard prior to applying the Wasser recommended primer.

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

## Application Information

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MC-Miomastic can be applied by brush, roll, airless spray and conventional spray methods. 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.

### Brush/Roller:

Brush: Natural Fiber

Roller: Natural or synthetic fiber cover

Nap: ¼" to ¾"

Core: Phenolic

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

### Airless Spray:

Pump Ratio: 28 -40:1

Pressure: 2100 - 2800 psi

Hose: ¼" to ¾"

Tip Size: .013 - .019

Filter Size: 60 mesh (250 µm)

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

### 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

**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.

**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.

## Application Conditions

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**Temperature:** 20° - 120° F (-8° - 38° 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.

**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

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VOC Compliant (National Standards – Industrial Maintenance Coating)

Qualified for use in USDA and FDA inspected facilities

## Ordering Information

**Product Numbers:** W13.35      Red Oxide  
W13.0347      Light 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:** 24.3 ± 1.0 lbs.  
(3.2 ± .12 kg/l)

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, Methyl-n-Amyl Ketone, Isophorone Diisocyanate, Homopolymer HDI**

**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.**

### W13.35

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

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