

Product Description

MC-Miozinc 100 meets strict VOC specifications for industrial maintenance coatings. Because of the combination of zinc and micaceous iron oxide pigments, this primer is ideal for protecting pitted steel or steel with complex geometry. As a spot primer, it is especially effective when overlapping onto existing coatings. The surface tolerance of MC-Miozinc 100 is its primary benefit offering galvanic and barrier protection when applied to properly prepared steel surfaces. It's a versatile primer for hydro-blasting, wet or dry abrasive blasting, or hand and power tool surface preparation.

Area of Use

Substrates

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

Possible Uses

Water Treatment Facilities
Wastewater Treatment Facilities
Food Processing Facilities
Pulp and Paper Mills
Tank Exteriors
Hydropower Facilities
Marine/Port Facilities
Offshore Platforms

Chemical Processing Facilities
Material Handling Equipment
Refineries
Structural Steel
Work Boats
Pipes
Bridges

Ready Reference Information

Resin Type: Urethane
Pigment type: Zinc and Micaceous Iron Oxide
Sheen: Flat
Colors: Standard Green
Volume Solids: 62.0% ± 2.0
VOC: < 0.8 lb/gal (100g/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
(4.9 m²/l at 127 microns DFT – 8.1 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
- VOC Compliant at less than 100 g/l
- Immersion or non-immersion service
- Impact and abrasion resistant
- MIO reinforced film – maintains build on edges threads and weld seams
- No dew point restrictions (substrate must be visibly dry)
- Can be applied at 99% relative humidity (substrate must be visibly dry)
- Can be applied in below freezing temperatures (no ice or frost)
- Surface tolerant Zinc-rich primer
- Compatible with PURQuik[®] Accelerator for faster recoat and cure times

Recommended Systems

Ferrous Metals (Full Removal):

1 st Coat: MC-Miozinc 100	3.0-5.0 mils DFT
2 nd Coat: Polyflex 102 Rapid Thane	6.0-10.0 mils DFT
Total System DFT:	8.0-14.0 mils DFT
1 st Coat: MC-Miozinc 100	3.0-5.0 mils DFT
2 nd Coat: Ferrox B 100	3.0-5.0 mils DFT
3 rd Coat: MC-Ferrox A 100	2.0-4.0 mils DFT
Or MC-Luster 100	
Total System DFT:	8.0-14.0 mils DFT

Ferrous Metals (Overcoat):

1 st Coat: MC-Miozinc 100 (Spot Prime)	3.0-5.0 mils DFT
2 nd Coat: MC-Miomastic 100	3.0-5.0 mils DFT
3 rd Coat: MC-Ferrox A 100	2.0-4.0 mils DFT
Or MC-Luster 100	
Total System DFT:	8.0-14.0 mils DFT

Ferrous Metals (Immersion/Severe Service):

1 st Coat: MC-Zinc 100	3.0-5.0 mils DFT
2 nd Coat: Polyflex 201 PW NSF	30.0-100.0 mils DFT
Total System DFT:	33.0-105.0 mils DFT
1 st Coat: MC-Zinc 100	3.0-5.0 mils DFT
2 nd Coat: MC-Tar 100	5.0-7.0 mils DFT
3 rd Coat: MC-Tar 100	5.0-7.0 mils DFT
Total System DFT:	13.0-19.0 mils DFT

Ferrous Metals (Immersion/Light Color Topcoat):

1 st Coat: MC-Zinc 100	3.0-5.0 mils DFT
2 nd Coat: MC-Ballastcoat 100	3.0-4.0 mils DFT
3 rd Coat: MC-Ballastcoat 100	3.0-4.0 mils DFT
Total System DFT:	9.0-13.0 mils DFT

Galvanized Metal:

1 st Coat: MC-Miozinc 100 (Spot Prime)	3.0-5.0 mils DFT
2 nd Coat: Miomastic 100	3.0-5.0 mils DFT
3 rd Coat: MC-Ferrox A 100	2.0-4.0 mils DFT
Or MC-Luster 100	
Total System DFT:	8.0-14.0 mils DFT

Two-Coat System Option

1 st Coat: MC-Miozinc 100 (Spot Prime)	3.0-5.0 mils DFT
2 nd Coat: Polyflex 102 Rapid Thane	6.0-10.0 mils DFT
Total System DFT:	5.0-9.0 mils DFT

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

Performance Testing Data

*Contact Wasser Corporation for detailed testing of this product

Compatible Coatings

Primers:

MC-Zinc 100
MC-Ferroclad 100
MC-Ultra Build DTM 100

Intermediates:

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

Topcoats:

MC-Ferrox A 100
MC-Luster 100
MC-Shieldcoat 100
MC-Tar 100
MC-Ballastcoat 100
Polyflex 102 Rapid Thane

Thick Film Topcoats:

Polyflex 201 PW
Polyflex 202 High Chem
Polyflex 401 Polar Serve

Coating Accelerator:

PURQuik[®] Accelerator

*Use only with a Wasser recommended intermediate

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 severe service projects to SSPC-SP10/NACE No. 2 Near White Metal finish.

Prepare surfaces for 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 an angular surface profile of 1.0 - 2.0 mils (25 - 50 microns).

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.

Application Information

MC-Miozinc 100 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 2-4 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 or MC-Thinner XMT.

Airless Spray:

Pump Ratio: 28 - 40:1

Pressure: 2400 - 2800 psi

Hose: ¼" to ¾"

Tip Size: .013 - .017

Filter Size: 60 mesh (250 µm)

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

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, MC-Thinner 100, or MC-Thinner XMT.

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.

Reducer: MC-Thinner, MC-Thinner 100, or MC-Thinner XMT.

Reduction is typically not required. If desired, thin up to 8% with MC-Thinner or MC-Thinner 100. MC-Thinner XMT is an exempt solvent specially formulated for Series 100 MCU. 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

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.

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 ≤ 0.8 lbs/gal (100 gr/ltr) (National Standards for Industrial Maintenance Coating, and SCAQMD Rule 1113 IM Coating, Zinc Rich IM Primer)

Cal Trans – Qualified Product – “Organic Zinc-Rich Primer” List

Ordering Information

Product Numbers: W031.4 Standard Green
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: 107.6°F (42°C)
Weight/gallon: 19.5 ± 1.0 lbs.
(2.3 ± .12 kg/l)
DOT HAZARD CLASS 3
DOT PACKAGING GROUP II
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.