

## Product Description

Wasser's proven, high-performance, single-component, moisture-cure urethane, organic zinc-rich primer is now formulated to meet the strict VOC requirements for industrial maintenance coatings. 83% zinc in the dry film makes MC-Zinc 100 the optimum, zinc-rich primer for maximum resistance to rust and corrosion undercutting on steel structures.

## Area of Use

### Substrates

Over properly prepared:  
Ferrous Metal  
Galvanized Metal

### Possible Uses

Bridges  
Refineries  
Water Treatment Facilities  
Wastewater Treatment Facilities  
Marine/Port Facilities Structural Steel  
Offshore Platforms  
Tank Exteriors  
Food Processing Facilities

Material Handling Equipment  
Pulp and Paper Mills  
Marine/Port Facilities  
Chemical Processing Facilities  
Pipes  
Work Boats  
Hydropower Facilities

## Ready Reference Information

**Resin Type:** Urethane  
**Pigment type:** 83% Zinc in the dry film  
**Sheen:** Flat  
**Colors:** Standard Grey  
**Volume Solids:** 62.0% ± 2.0  
**VOC:** < 0.8 lb/gal (100g/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 (104-173 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  
(4.9 m<sup>2</sup>/l at 127 microns DFT – 8.1 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	3 hours	--	1.5 hours	--	1 hour	--
Recoat Minimum <sup>1</sup>	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

<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
- 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
- Various service applications
- Impact resistant
- Abrasion resistant
- 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)
- Compatible with PURQuik® Accelerator for faster recoat and cure times

## Recommended Systems

### Ferrous Metals (Overcoat):

1 <sup>st</sup> Coat: MC-Zinc 100 (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	
Or Polyflex 102 Rapid Thane	6.0-10.0 mils DFT
Total System DFT:	14.0-24.0 mils DFT

### Ferrous Metals (Full Removal):

1 <sup>st</sup> Coat: MC-Zinc 100	3.0-5.0 mils DFT
2 <sup>nd</sup> Coat: MC-Ferrox B	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 (Immersion/Severe Service):

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

### Ferrous Metals (Immersion/Light Color Topcoat):

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

### Galvanized Metal:

1 <sup>st</sup> Coat: MC-Zinc 100 (Spot Repair)	3.0-5.0 mils DFT
2 <sup>nd</sup> Coat: 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

### Two-Coat System Option

1 <sup>st</sup> Coat: MC-Zinc 100 (Spot Repair)	3.0-5.0 mils DFT
2 <sup>nd</sup> Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Or Polyflex 102	6.0-10.0 mils DFT
Total System DFT:	9.0-15.0 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-Miozinc 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  
Polyflex 201 PW NSF  
Polyflex 202 High Chem  
Polyflex 401 Polar Serve

### Coating Accelerator

PURQuik® Accelerator

\*Only use with a Wasser recommended intermediate

## Surface Preparation

### Ferrous Metal

Use SSPC-SP1 solvent cleaning to remove oil, grease and 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.

## Application Information

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MC-Zinc 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 ⅜"  
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 ⅜"  
Tip Size: .013 - .019  
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.

## Certifications and Qualifications

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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

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.

### 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 or 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° - 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 containers 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

## Ordering Information

**Product Numbers:** W011.6 Standard Grey  
W011.0080 Pink

**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:** 80°F (27°C)

**Weight/gallon:** 26.7 ± 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.**