

## Product Description

Revision Date 043004

MC-Clear is Wasser's clear, gloss-finish, aesthetic topcoat. It provides excellent resistance to UV, weathering and abrasion in a moisture cure urethane coating. This topcoat selection has reliable, aliphatic urethane topcoat performance and its moisture cure properties allow for application in various service environments, on various project types, or substrates.

## Area of Use

### Substrates

Over properly prepared:  
 Ferrous Metal                      Concrete  
 Galvanized Metal                  Concrete Block  
 Aluminum/Non-Ferrous Metal

### Possible Uses

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

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

## Ready Reference Information

**Resin Type:** Aliphatic Urethane  
**Pigment Type:** Clear  
**Sheen:** Gloss  
**Colors:** Clear  
**Volume Solids:** 61.0% ± 2.0  
**VOC:** <2.8 lb/gal (340 g/l)  
 (Volatile Organic Content)

**Theoretical Coverage:** @1 mil DFT: 978 ft<sup>2</sup>/gal  
 (@ 25 µm DFT: 24.0 m<sup>2</sup>/l)

### Recommended Film Thickness

**Wet:** 1.6 - 3.3 mils (41 - 84 microns)  
**Dry:** 1.0 - 2.0 mils (25 - 51 microns)

### Recommended Coverage per coat:

489 ft<sup>2</sup>/gal at 2.0 mils DFT - 978 ft<sup>2</sup>/gal at 1.0 mils DFT  
 (12.0 m<sup>2</sup>/l at 51 microns DFT - 24.0 m<sup>2</sup>/l at 25 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 hr             | --            | 30 min           | --            | 20 min           | --            |
| Recoat Minimum <sup>1</sup> | 10 hrs           | <b>1 hr</b>   | 8 hrs            | <b>30 min</b> | 6 hrs            | <b>20 min</b> |
| Full Cure                   | 10 days          | <b>7 days</b> | 7 days           | <b>5 days</b> | 5 days           | <b>4 days</b> |

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

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

1. On clean surface, recoat within 30 days. After 30 days, do a test patch.

## Product Features

|   |   |  |
|---|---|--|
| Single Component Moisture Cure Urethane         | Low VOC   | No Dew Point Restrictions<br>(Substrate must be visibly dry)           |
| No Mixing Errors.                               | UV, Impact, and Abrasion Resistant                    |  |
| No Pot Life                                     | Versatile clear, gloss topcoat for various substrates | Can be applied in below freezing temperatures (no ice or frost)        |
| Easy to apply by brush, roller or spray methods | Can be applied at 99% humidity                        | Compatible with PURQuik® Accelerator for faster recoat and cure times. |

## Recommended Systems

### Atmospheric Exposure

#### Ferrous Metals:

|                                   |                   |
|-----------------------------------|-------------------|
| 1 <sup>st</sup> Coat: MC-Zinc     | 3.0-5.0 mils DFT  |
| Or MC-Miozinc                     |                   |
| 2 <sup>nd</sup> Coat: MC-Ferrox B | 3.0-5.0 mils DFT  |
| 3 <sup>rd</sup> Coat: MC-Luster   | 2.0-4.0 mils DFT  |
| Or MC-Ferrox A                    |                   |
| 4 <sup>th</sup> Coat: MC-Clear    | 1.5-2.0 mils DFT  |
| Total System DFT:                 | 9.5-16.0 mils DFT |

|                                     |                   |
|-------------------------------------|-------------------|
| 1 <sup>st</sup> Coat: MC-Zinc       | 3.0-5.0 mils DFT  |
| Or MC-Miozinc                       |                   |
| 2 <sup>nd</sup> Coat: MC-CR         | 3.0-4.0 mils DFT  |
| 3 <sup>rd</sup> Coat: MC-Shieldcoat | 1.5-2.0 mils DFT  |
| 4 <sup>th</sup> Coat: MC-Clear      | 1.5-2.0 mils DFT  |
| Total System DFT:                   | 9.0-13.0 mils DFT |

#### Aluminum/Non-Ferrous Metals/ Galvanized Metal:

|                                     |                  |
|-------------------------------------|------------------|
| 1 <sup>st</sup> Coat: MC-CR         | 3.0-4.0 mils DFT |
| 2 <sup>nd</sup> Coat: MC-Shieldcoat | 1.5-2.0 mils DFT |
| 3 <sup>rd</sup> Coat: MC-Clear      | 1.5-2.0 mils DFT |
| Total System DFT:                   | 6.0-8.0 mils DFT |

|                                   |                   |
|-----------------------------------|-------------------|
| 1 <sup>st</sup> Coat: MC-Ferrox B | 3.0-5.0 mils DFT  |
| 2 <sup>nd</sup> Coat: MC-Luster   | 2.0-4.0 mils DFT  |
| 3 <sup>rd</sup> Coat: MC-Clear    | 1.5-2.0 mils DFT  |
| Total System DFT:                 | 6.5-11.0 mils DFT |

#### Concrete<sup>1</sup> (Interior/Exterior):

|                                 |                   |
|---------------------------------|-------------------|
| 1 <sup>st</sup> Coat: MC-CR     | 3.0-4.0 mils DFT  |
| 2 <sup>nd</sup> Coat: MC-Luster | 2.0-4.0 mils DFT  |
| 3 <sup>rd</sup> Coat: MC-Clear  | 1.5-2.0 mils DFT  |
| Total System DFT:               | 6.5-10.0 mils DFT |

|                                |                  |
|--------------------------------|------------------|
| 1 <sup>st</sup> Coat: MC-Clear | 1.5-2.0 mils DFT |
| 2 <sup>nd</sup> Coat: MC-Clear | 1.5-2.0 mils DFT |
| Total System DFT:              | 3.0-4.0 mils DFT |

1. Prime coat for concrete may be reduced up to 25% to facilitate coating penetration. Subsequent coating applications may be reduced as necessary up to 10%. Thin in accordance with local and federal regulations.

**Note: Use over recommended primers, intermediates, and topcoats for ferrous metal. Not recommended for direct to ferrous metal applications.**

**\*Other Systems are available and appropriate. Contact your Wasser Representative for any questions.**

## Performance Testing Data

### Dry Heat Resistance:

Continuous: 250°F (120°C)

\*Contact Wasser High-Tech Coatings for detailed testing of this product

## Compatible Coatings

### Primer:

|             |                 |
|-------------|-----------------|
| MC-Prepbond | MC-Prepbond 200 |
| MC-Zinc     | MC-Zinc 200     |
| MC-Miozinc  | MC-Miozinc 200  |

### Intermediates:

|              |                  |
|--------------|------------------|
| MC-Ferrox B  | MC-Ferrox B 200  |
| MC-Miomastic | MC-Miomastic 200 |
| MC-CR        | MC-CR 200        |

### MC-Clear as Finish Coat Over Topcoats:

|               |                   |
|---------------|-------------------|
| MC-Ferrox A   | MC-Ferrox A 200   |
| MC-Luster     | MC-Luster 200     |
| MC-Shieldcoat | MC-Shieldcoat 200 |
| MC-Aluminum   | MC-Aluminum 200   |

### 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 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 3 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.

### Concrete/Concrete Block

The surface must be dry, free of surface contaminants, and in sound condition. Grease, and oil should be removed by ASTM D4258-83 (Reapproved 1999) and release agents should be removed by ASTM D4259 - 88 (Reapproved 1999). Refer to SSPC-SP13/NACE No 6 mechanical or chemical surface preparation methods for preparing concrete to suitable cleanliness for intended service. Surface preparation methods should impart sufficient surface profile for mechanical adhesion to occur. Ensure surface is thoroughly rinsed and dry prior to coating application. Allow a minimum 7 - 14 days cure time for new concrete prior to preparation and application.

### Good Practices

MC-Clear is designed for application to a variety of substrates and coatings. Apply a test sample to a small area to determine coating adhesion and/or compatibility. 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, 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.

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

## Application Information

MC-Clear 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 ⅜"  
 Core: Phenolic  
 Reduction: Typically not required. If necessary, reduce with MC-Thinner 100.

### Airless Spray:

Pump Ratio: 28-40:1  
 Pressure: 2400-2800 psi  
 Hose: ¼" to ⅜"  
 Tip Size: .007-.013  
 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:

**Temperature:** 20°-100° 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

Revision Date 043004

VOC Compliant (National Standards – Industrial Maintenance Coating, and Concrete Protective Coating)

Qualified for use in USDA and FDA inspected facilities

## Ordering Information

**Product Numbers:** W27.0  
**Package Size:** 1 gallon pails  
**Shelf Life:** 12 months from date of shipment when stored unopened at 75°F (24°C)

## Shipping Information

**Flash Point:** 80°F (26.6°C)  
**Weight/gallon:** 8.5 ± 1.0 lbs  
(1.02 ± .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, Xylene, Ethylbenzene, Methyl-n-Amyl Ketone, Methyl Isobutyl 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.**

**W27.0**

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

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