

MC-Clear 100

topcoat

WASSER
ADVANCED COATINGS TECHNOLOGY

Product Description

MC-Clear 100 is Wasser's clear, semi-gloss and gloss-finishes, aesthetic topcoat. They provide 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.

Product Features

- Single Component Moisture Cure Urethane
- No mixing errors – no pot life
- Protective coating for various substrates
- Easy to apply by brush, roller, mitt or spray methods
- Low VOC
- UV, Impact, and Abrasion Resistant
- Versatile clear topcoat for various substrates
- Can be applied at 99% humidity
- No Dew Point Restrictions (Substrate must be visibly dry)
- Can be applied in below freezing temperatures (no ice or frost)
- Compatible with PURQuik® Accelerator for faster re-coat and cure times.

Area of Use

Substrates

Over properly prepared:

- Ferrous Metal
- Galvanized Metal
- Aluminum/Non-Ferrous Metal
- Concrete
- Concrete Block

Possible Uses

- Bridges
- Tank Exteriors
- Floors
- Material Handling Equipment
- Pulp and Paper Mills
- Chemical Processing Facilities
- Hydro-power Facilities and Penstocks
- Water and Wastewater Treatment Facilities
- Structural Steel
- Food Processing
- Work Boats
- Refineries
- Marine/Port Facilities
- Offshore Platforms

Ready Reference Information

Resin Type: Single Component Moisture Cure Aliphatic Urethane

Pigment Type: Clear

Sheen: Gloss and Semi Gloss

Colors: Clear

Volume Solids: 61.0% ± 2.0

VOC: <0.8lb/gal (100 g/l)
(Volatile Organic Content)

Theoretical Coverage:

At 1 mil DFT: 978 ft²/gal
At 25 micron DFT: 24.0 m²/l

Recommended Film Thickness:

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

Recommended Coverage Per Coat:

489 ft²/gal at 2.0 mils DFT - 978 ft²/gal at 1.0 mils DFT
(12.0 m²/l at 51 µm DFT - 24.0 m²/l at 25 µm DFT)

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

*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	48 hours	4 hours	3 hours	40 minutes	80 minutes	35 minutes
Re-coat Minimum¹	10 hours	1 hour	8 hours	30 minutes	6 hours	20 minutes
Full Cure	10 days	7 days	7 days	5 days	5 days	4 days

Ver. 17.08.29.A Refer to Wasser's PURQuik® Accelerator Product Data for additional information. *Humidity, temperature and coating thickness will affect re-coat and curing times
¹On clean surface, re-coat within 7 days. After 7 days, do a test patch.

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Recommended Systems

Atmospheric Exposure Ferrous Metals:

1st Coat: MC-Zinc 100 Or MC-Miozinc 100	3.0-5.0 mils DFT
2nd Coat: MC-Ferrox B 100	3.0-5.0 mils DFT
3rd Coat: MC-Luster 100 Or MC-Ferrox A 100	2.0-4.0 mils DFT
4th Coat: MC-Clear 100	1.5-2.0 mils DFT
Total System DFT:	9.5-16.0 mils DFT

1st Coat: MC-Universal 100	4.0-5.5 mils DFT
2nd Coat: MC-Luster 100 Or MC-Ferrox A 100	2.0-4.0 mils DFT
4th Coat: MC-Clear 100	1.5-2.0 mils DFT
Total System DFT:	7.5-11.5 mils DFT

Aluminum/Non-Ferrous Metals/ Galvanized Metal:

1st Coat: MC-CR 100 Or MC-Universal 100	3.0-4.0 mils DFT
2nd Coat: MC-Shieldcoat 100	1.5-2.0 mils DFT
3rd Coat: MC-Clear 100	1.5-2.0 mils DFT
Total System DFT:	6.0-8.0 mils DFT

1st Coat: MC-Ferrox B 100	3.0-5.0 mils DFT
2nd Coat: MC-Luster 100	2.0-4.0 mils DFT
3rd Coat: MC-Clear 100	1.5-2.0 mils DFT
Total System DFT:	6.5-11.0 mils DFT

Concrete¹ (Interior/Exterior):

1st Coat: MC-CR 100 Or MC-Universal 100	3.0-4.0 mils DFT
2nd Coat: MC-Luster 100	2.0-4.0 mils DFT
3rd Coat: MC-Clear 100	1.5-2.0 mils DFT
Total System DFT:	6.5-10.0 mils DFT

1st Coat: MC-Clear 100	1.5-2.0 mils DFT
2nd Coat: MC-Clear 100	1.5-2.0 mils DFT
Total System DFT:	3.0-4.0 mils DFT

1st Coat: MC-Clear 100	1.5-2.0 mils DFT
2nd Coat: MC-Antigraffiti 100	1.5-2.0 mils DFT
Total System DFT:	3.0-4.0 mils DFT

¹Prime 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. MC-Clear 100 is not recommended for direct to ferrous metal applications.

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

Compatible Coatings

Primers:

MC-Prepbond 100
MC-Zinc 100
MC-Miozinc 100
MC-Universal 100

Intermediates:

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

MC-Clear 100 as Finish Coat Over Topcoats:

MC-Ferrox A 100
MC-Luster 100
MC-Shieldcoat 100

Coating Accelerator PURQuik® Accelerator

MC-Clear100 is compatible with most Wasser/ Polyflex Membranes. Contact your Wasser Representative for any questions.

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 SP3 Hand and Power Tool cleaning to remove excessive corrosion and impart surface profile on bare metal. Supplement new galvanized surface cleaning with SSPC-SP16 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.

For 2 coat clear systems using MC-Antigraffiti 100 as the topcoat, use MC-Clear 100 for the prime coat.

Good Practices

MC-Clear 100 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. Prime any areas cleaned to bare metal with a Wasser recommended primer and coating system.

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 100 can be applied by brush, roll, airless spray, mitt 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: 0.007-0.013
Filter Size: 60 mesh (250 µm)
Reduction: Typically not required. If necessary, reduce with MC-Thinner or MC-Thinner 100.

Conventional Spray/HLVP:

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 15% with recommended thinner. Thin in accordance with local and federal regulatory standards.

Clean up:

MC-Thinner, MC-Thinner 100, or MC-Thinner XMT.
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 and frost free. On applications below 33° F (0.5° C), Steel temperatures should be 5°F above the dew point temperature. 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. (Do not accelerate when used as prime coat on concrete)

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 Standard for Industrial Maintenance Coating, Ozone Transportation Commission and SCAQMD Rule 1113 IM Coating effective 1/1/04)

Qualified for use in USDA and FDA inspected facilities.

Performance Testing Data

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

*Contact Wasser Corporation for detailed testing of this product.

Ordering Information

Product Numbers: W271.0SG (Semi-gloss)

W271.0 (Gloss)

Package Size: 1 gallon and 5 gallon pails

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

Shipping Information

Flash Point: 58.3°F (14.6°C)

Weight/gallon: 8.0 – 8.5 lbs/gal
(0.95- 1.01 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!

Intended for professional use only. Obtain and Read Wasser's Safety Data Sheet for this before using.

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 Wasser's Safety Data Sheet for this before using.

INTENDED FOR PROFESSIONAL USE ONLY.

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

Wasser Corporation's liability on any claim of any kind, including claims based upon Wasser Corporation's negligence or strict liability, for any loss or damage arising out of, connected with or resulting from the use of the Products, shall in no case exceed the purchase price allowable for the Products or part thereof that give rise to the claim. In no event shall Wasser Corporation be liable for consequential or incidental damages. Published Product Data Sheets are subject to change without notice.

Contact your Wasser Representative or the Wasser website for the most current Product Data Sheets.