Product Description

Wasser’s most specified aesthetic topcoat MC-Luster is a single-component, semi-gloss, aliphatic, moisture-cure urethane that has excellent resistance to UV, weathering and abrasion. It is an ideal topcoat solution for new construction and maintenance projects with proven performance and easy recoat-ability.

Area of Use

Substrates
Over properly prepared:
- Ferrous Metal
- Galvanized Metal
- Aluminium/Non-Ferrous Metal
- Metallized
- Previously Existing Coatings
- Concrete
- Concrete Block

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

Structural Steel
- Food Processing Facilities
- Refineries
- Marine/Port Facilities
- Offshore Platforms
- Hydropower Facilities

Ready Reference Information

Resin Type: Aliphatic Urethane
Pigment type: Coloring
Sheen: Semi-Gloss
Colors: Standard and various colors
Volume Solids: 62.0% ± 2.0
VOC: < 2.8 lb/gal (340 g/l)

Theoretical Coverage:
- At 1 mil DFT: 994 ft²/gal
- At 25 µm DFT: 24.4 m²/l

Recommended Film Thickness:
- Wet: 3.2-6.4 mils (81-163 microns)
- Dry: 2.0-4.0 mils (51-102 microns)

Recommended Coverage Per Coat:
- 249 ft²/gal at 4.0 mils DFT - 497 ft²/gal at 2.0 mils DFT
- (6.1 m²/l at 102 microns DFT - 12.2 m²/l at 51 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

<table>
<thead>
<tr>
<th><em>At 50% Humidity</em></th>
<th>50°F/10°C</th>
<th>75°F/24°C</th>
<th>95°F/35°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tack Free</td>
<td>Without PURQuik®</td>
<td>With PURQuik®</td>
<td>Without PURQuik®</td>
</tr>
<tr>
<td></td>
<td>1 hour</td>
<td>30 minutes</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Recoat Minimum¹</td>
<td>10 hours</td>
<td>8 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td></td>
<td>1 hour</td>
<td>30 minutes</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Full Cure</td>
<td>10 Days</td>
<td>7 days</td>
<td>5 days</td>
</tr>
<tr>
<td></td>
<td>7 days</td>
<td>5 days</td>
<td>4 days</td>
</tr>
</tbody>
</table>

*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
- Easy to apply by brush, roller or spray methods
- High performance finish coat for various substrates and services
- Low VOC
- UV, impact and abrasion resistant
- 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 (New Construction/Full Removal):
1st Coat: MC-Zinc 3.0-5.0 mils DFT
2nd Coat: MC-Ferrox B 3.0-5.0 mils DFT
3rd Coat: MC-Luster 2.0-4.0 mils DFT
Total System DFT: 8.0-14.0 mils DFT

1st Coat: MC-Miozinc 3.0-5.0 mils DFT
2nd Coat: MC-Ferrox B 3.0-5.0 mils DFT
3rd Coat: MC-Luster 2.0-4.0 mils DFT
Total System DFT: 8.0-14.0 mils DFT

Ferrous Metals (Overcoat):
1st Coat: MC-Miozinc (Spot Prime) 3.0-5.0 mils DFT
2nd Coat: MC-Miomastic 3.0-5.0 mils DFT
3rd Coat: MC-Luster 2.0-4.0 mils DFT
Total System DFT: 8.0-14.0 mils DFT

Aluminum/Non-Ferrous Metals/ Galvanized Metal:
1st Coat: MC-CR 3.0-4.0 mils DFT
2nd Coat: MC-Luster 2.0-4.0 mils DFT
Total System DFT: 5.0-4.0 mils DFT

1st Coat: MC-Ferrox B 3.0-5.0 mils DFT
2nd Coat: MC-Luster 2.0-4.0 mils DFT
Total System DFT: 5.0-9.0 mils DFT

Concrete’ (Interior/Exterior):
1st Coat: MC-CR 3.0-4.0 mils DFT
2nd Coat: MC-Luster 2.0-4.0 mils DFT
Optional Clear Coat
3rd Coat: MC-Antigraffiti 100 1.5-2.0 mils DFT
Total System DFT: 6.5-10.0 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 and intermediates 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

System: MC-Miozinc
MC-Ferrox B
MC-Luster

@75°F and 50% RH 7 day min. cure

Abrasion Resistance: 147 mg loss
(ASTM D4060 – CS-17 Wheel, 1,000 cycles/kg load)

Adhesion: 1780 psi
(ASTM D4541)

Impact:
(ASTM 2794)
Direct: 130
Reverse: 20

Prohesion:
(ASTM G85 @ 5000 hrs)
Blistering: None
Scribe Rate: 9.5

Dry Heat Resistance:
Continuous: 285°F (141°C)

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

Compatable Coatings

Primer:
MC-Zinc 100 MC-Zinc 2.8
MC-Miozinc 100 MC-Miozinc 2.8
MC-Prepbond 100 MC-Prepbond 2.8

Intermediates:
MC-Ferrox B 100 MC-Ferrox B 2.8
MC-Miomastic 100 MC-Miomastic 2.8
MC-CR 100 MC-CR 2.8

Topcoats:
MC-Antigraffiti 100

Coating Accelerator:
PURQuik® Coating Accelerator

Surface Preparation

Ferrous Metal

Apply to clean, dry, Wasser recommended primers and intermediates. 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.
MC-Luster 2.8

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.

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 SSPC-SP3 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 areas of existing paint back to a firm edge). Spot prime any areas cleaned to bare metal with a Wasser recommended primer. Sand glossy surfaces to provide profile. Apply a test sample to a small area to determine coating compatibility.

Application Information
MC-Luster 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:** 2400-2800 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: (DeVilbis 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, or 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 (National Standards – Industrial Maintenance Coating, and Concrete Protective Coating)
Qualified for use in USDA and FDA inspected facilities

Ordering Information

<table>
<thead>
<tr>
<th>Product Numbers</th>
<th>White</th>
<th>Standard Grey</th>
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<tbody>
<tr>
<td>W21.7</td>
<td></td>
<td></td>
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<tr>
<td>W21.64</td>
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<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Flash Point:</th>
<th>80°F (26.6°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight/gallon:</td>
<td>11.5 ± 1.0 lbs. (3.2 ± .12 kg/l)</td>
</tr>
</tbody>
</table>

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, 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.

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 for current Product Data Sheets.

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