

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
(See Wasser's Color Chart)
Volume Solids: 62.0% ± 2.0
VOC: < 2.8 lb/gal (340 g/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: 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

*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	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

*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):

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

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

Ferrous Metals (Overcoat):

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

Aluminum/Non-Ferrous Metals/ Galvanized Metal:

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

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

Concrete¹ (Interior/Exterior):

1 st Coat: MC-CR	3.0-4.0 mils DFT
2 nd Coat: MC-Luster	2.0-4.0 mils DFT
Optional Clear Coat	
3 rd 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

Compatible 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.

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, bare metal with Wasser recommended primer. Sand glossy surfaces to provide profile. Apply a test sample to a small area to determine coating compatibility.

Good Practices

MC-Luster is designed for application to a variety of substrates and tightly adhering, previously existing coatings. Apply a test sample to a small area to determine coating 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-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.

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.

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.

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.

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.

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.

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.

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

Product Numbers: **W21.7** **White**
 W21.64 **Standard Grey**

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: 80°F (26.6°C)

Weight/gallon: 11.5 ± 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, 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.

W21.7

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

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