MC-Aluminum

WASSER

Product Description

Revision Date 043004

MC-Aluminum has superior weathering and corrosion resistance. When applied over Wasser recommended primers it provides maximum performance on various substrates and can be applied directly to non-ferrous and metalized surfaces. It is a multi-use topcoat with excellent impact and abrasion resistance with proven adhesion characteristics. MC-Aluminum is often used for repair and repainting projects to match the appearance of new, galvanized surfaces.

Area of Use

Substrates

Over properly prepared:
Ferrous Metal
Galvanized Metal
Aluminum/Non-Ferrous Metal
Metallized
Previously Existing Coatings

Possible Uses

Bridges
Tank Exteriors
Material Handling Equipment
Pulp and Paper Mills
Chemical Processing Facilities
Water and Wastewater Treatment Facilities
Food Processing Facilities
Structural Steel
Catwalks
Refineries
Pipes

Ready Reference Information

Resin Type:	Aromatic Urethane
Pigment Type:	Aluminum Flake
Sheen:	Semi-gloss
Colors:	Aluminum (Not color Matched)
Volume Solids:	62.0% ± 2.0
VOC: (Volatile Organic Content)	<2.8 lb/gal (340 g/l)

Theoretical Coverage: @1 mil DFT: 994 ft^2/gal
(@ 25 μm DFT: 24.4 m^2/l)

Recommended Film Thickness
Wet: 2.4 - 3.2 mils (61 - 81 microns)
Dry: 1.5 - 2.0 mils (38 - 51 microns)

Recommended Coverage per coat:
497 ft^2/gal at 2.0 mils DFT - 663 ft^2/gal at 1.5 mils DFT
(12.2 m^2/l at 51 microns DFT - 16.2 m^2/l at 38 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[1]	8 hrs	***1 hr***	6 hrs	***30 min***	4 hrs	***20 min***
Full Cure	10 days	***7 days***	7 days	***5 days***	5 days	***4 days***

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

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

1. Abrade surface after 72 hours.

Product Features

Single Component Moisture Cure Urethane
No Mixing Errors. No Pot Life
Resistant to abrasion, impact and aging
Easy to apply by brush, roller or spray methods
Low VOC
Can be applied at 99% humidity
Can be applied in below freezing temperatures (no ice or frost)
Outstanding corrosion resistance over recommended primers
No Dew Point Restrictions (Substrate must be visibly dry)
Multi-use topcoat
Compatible with PURQuik® Accelerator for faster recoat and cure times.

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Recommended Systems

Atmospheric Exposure
Ferrous Metals:

1st Coat: MC-Zinc	3.0-5.0 mils DFT
2nd Coat: MC- Ferrox B	3.0-5.0 mils DFT
3rd Coat: MC-Aluminum	1.5-2.0 mils DFT
Total System DFT:	7.5-12.0 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-Aluminum	1.5-2.0 mils DFT
Total System DFT:	7.5-12.0 mils DFT

1st Coat: MC-Zinc	3.0-5.0 mils DFT
2nd Coat: MC-Aluminum	1.5-2.0 mils DFT
3rd Coat: MC-Aluminum	1.5-2.0 mils DFT
Total System DFT:	6.0-9.0 mils DFT

1st Coat: MC-Miozinc	3.0-5.0 mils DFT
2nd Coat: MC-Aluminum	1.5-2.0 mils DFT
3rd Coat: MC-Aluminum	1.5-2.0 mils DFT
Total System DFT:	6.0-9.0 mils DFT

Aluminum/Non-Ferrous Metals/ Galvanized Metal:

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

***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-Tar	MC-Tar 200

Coating Accelerator:
PURQuik® Coating Accelerator

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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 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.

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 3 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.

Good Practices

MC-Aluminum 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 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-Aluminum 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 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: 1800-2000 psi
Hose: ¼" to ⅜"
Tip Size: .011-.013
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, 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.

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Certifications and Qualifications

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VOC Compliant (National Standards – Industrial Maintenance Coating and Concrete Protective Coating)
Qualified for use in USDA and FDA inspected facilities

Ordering Information

Product Numbers: W33.82 Aluminum

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:	9.4 ± 1.0 lbs. (1.1 ± .12 kg/l)
DOT HAZARD CLASS	3
DOT PACKAGING GROUP	III
DOT LABEL	FLAMMABLE LIQUIDS
DOT SHIPPING NAME	PAINT
DOT PLACARD	FLAMMABLE LIQUIDS
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, Modified MDI, 4,4'-Diphenylmethane Diisocyanate

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.

W33.82

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