

## Product Description

6-24-2013

Engineered for performance in the harsh environment of marine vessel ballast tanks, MC-BallastCoat 100 has become a recommended topcoat for application on various marine, immersion service or interior surface coating projects. It has the advantage of superior corrosion resistance, hard-film cure, and light coloring pigments for easy surface inspection and maintenance.

## Area of Use

### Substrates

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

Concrete  
Concrete Block

### Possible Uses

Ballast Tanks  
Tanks  
Offshore Platforms  
Material Handling Equipment  
Pulp and Paper Mills  
Chemical Processing Facilities  
Hydropower Facilities/  
Water and Wastewater Treatment Facilities

Structural Steel  
Work Boats  
Marine/Port Facilities  
Refineries  
Pipes  
Fish Bypass systems

## Ready Reference Information

**Resin Type:** Urethane  
**Pigment Type:** Coloring and Anti-corrosive  
**Sheen:** Flat  
**Colors:** Beige  
**Volume Solids:** 62.0%  $\pm$  2.0  
**VOC:** <0.8 lb/gal (100 g/l)  
(Volatile Organic Content)

**Theoretical Coverage:** @1 mil DFT: 994 ft<sup>2</sup>/gal  
(@ 25  $\mu$ m DFT: 24.4 m<sup>2</sup>/l)

### **Recommended Film Thickness**

**Wet:** 4.8 - 6.4 mils (122 - 163 microns)  
**Dry:** 3.0 - 4.0 mils (76 - 102 microns)

### **Recommended Coverage per coat:**

249 ft<sup>2</sup>/gal at 4.0 mils DFT - 331 ft<sup>2</sup>/gal at 3.0 mils DFT  
(6.1 m<sup>2</sup>/l at 102 microns DFT - 8.11 m<sup>2</sup>/l at 76 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>	8 hrs	<b>1 hr</b>	4 hrs	<b>30 min</b>	3 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. No outer recoat window on clean surfaces; oil, grease, chalk must be removed.

## Product Features

Single Component Moisture Cure Urethane	Low VOC	No Dew Point Restrictions (Substrate must be visibly dry)
No Mixing Errors. No Pot Life	Immersion & Non-Immersion	
Easy to apply by brush, roller or spray methods	Can be applied at 99% humidity	No outer recoat window on clean surfaces
Performance comparable to coal tar epoxy coatings	Can be applied in below freezing temperatures (no ice or frost)	Compatible with PURQuik® Accelerator for faster recoat and cure times.

# MC-BallastCoat

## Recommended Systems

### Ferrous Metals (Immersion/Severe Exposure):

1 <sup>st</sup> Coat: MC-Zinc 100	3.0-5.0 mils DFT
Or MC-Miozinc 100	
2 <sup>nd</sup> Coat: MC- Tar 100	5.0-7.0 mils DFT
3 <sup>rd</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	11.0-16.0 mils DFT

1 <sup>st</sup> Coat: MC-Zinc 100	3.0-5.0 mils DFT
Or MC-Miozinc 100	
2 <sup>nd</sup> Coat: MC- BallastCoat 100	3.0-4.0 mils DFT
3 <sup>rd</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	9.0-13.0 mils DFT

### Ballast Tanks (Salt Water)

1 <sup>st</sup> Coat: MC-Zinc 100	3.0-5.0 mils DFT
Or MC-Miozinc 100	
2 <sup>nd</sup> Coat: MC- Tar 100	5.0-7.0 mils DFT
3 <sup>rd</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	11.0-16.0 mils DFT

1 <sup>st</sup> Coat: Prepbond 100	1.5-2.0 mils DFT
2 <sup>nd</sup> Coat: MC- BallastCoat 100	3.0-4.0 mils DFT
3 <sup>rd</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	7.5-10.0 mils DFT

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

1 <sup>st</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
2 <sup>nd</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	6.0-8.0 mils DFT

### Concrete<sup>1</sup>:

1 <sup>st</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
2 <sup>nd</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	6.0-8.0 mils DFT

1 <sup>st</sup> Coat: MC- Tar 100	5.0-7.0 mils DFT
2 <sup>nd</sup> Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	8.0-11.0 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.

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

## Performance Testing Data

### Dry Heat Resistance:

Continuous: 150°F (66°C)

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

## Compatible Coatings

### Primer:

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

### Intermediates:

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

### Topcoats:

MC-BallastCoat 100  
MC-Luster 100

### Coating Accelerator:

PURQuik® Coating Accelerator

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## Surface Preparation

### Non-UV Exposures Ferrous Metal

Use SSPC-SP1 solvent cleaning to remove contaminants prior to employing surface preparation methods.

Blast Clean surfaces for immersion or severe service projects to SSPC-SP10/NACE No. 2 Near White Metal finish.

Prepare surfaces for non-immersion or atmospheric service projects to SSPC-SP6/NACE No. 3 Commercial Blast Clean finish. For minimum surface preparation use conscientious Power Tool Cleaning methods in accordance with SSPC-SP3.

Blast cleaning methods should produce a surface profile of 1.0 - 2.0 mils (25-51 microns).

### 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.

### 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 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-BallastCoat 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.

For immersion or severe environments, apply over a recommended Wasser 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 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-BallastCoat 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: 1/4" to 3/8"

Core: Phenolic

Reduction: Typically not required. If necessary, reduce with MC-Thinner 100.

### Airless Spray:

Pump Ratio: 28-40:1

Pressure: 2100-2800 psi

Hose: 1/4" to 3/8"

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: (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: 1/2" 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

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

## Ordering Information

**Product Numbers:** W391.71 Beige  
**Package Size:** 5 gallon pails  
**Shelf Life:** 12 months from date of shipment  
when stored unopened at 75°F (24° C)

## Shipping Information

**Flash Point:** 39.9°F (4.4°C)  
**Weight/gallon:** 11.9 ± 1.0 lbs  
(1.43 ± .12 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!

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 Isobutyl Ketone, Modified MDI, Coal Tar Pitch**

Cancer Hazard: Contains ingredients which can cause cancer. Risk of cancer depends on duration and level of exposure.

**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.**

**W391.71**

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

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