# MC-Ferrox B 100
## intermediate

WASSER® ADVANCED COATINGS TECHNOLOGY

## Product Description

MC-Ferrox B 100 is a unique single-component, moisture-cure urethane intermediate coating utilizing the benefits of a high load micaceous iron oxide (MIO). This is a popular economical intermediate for new construction and full removal maintenance project applications.

## Area of Use

**Substrates**

Over properly prepared:

- Galvanized Metal
- Aluminum/Non-Ferrous Metal
- Previously Existing Coatings
- Metallized Surfaces

**Possible Uses**

- Water Treatment Facilities
- Wastewater Treatment Facilities
- Tank Exteriors
- Hydro-power Facilities and Penstocks
- Marine/Port Facilities
- Chemical Processing Facilities
- Refineries
- Structural Steel
- Work Boats
- Bridges

## Product Features

- Meets SSPC Paint 41
- High performance intermediate coating for primed steel and aluminum
- Easy to apply by brush, roller, mitt or spray methods
- Micaceous iron oxide (MIO) helps maintains build on edges, threads and weld seams
- Single component Moisture Cure Urethane
- No mixing errors – no pot life
- Superior adhesion to most aged coatings
- VOC compliant at less than 100g/l
- Impact and abrasion resistant
- Can be applied at 99% relative humidity (substrate must be visibly dry.)
- Can be applied in below freezing temperatures (no ice or frost)
- No dew point restrictions (substrate must be visibly dry)
- Compatible with PURQuik® Accelerator for faster re-coat and cure times
- Use as a prime coat over new or weathered galvanized surfaces

## Ready Reference Information

**Resin Type:** Single Component Moisture Cure Aromatic Urethane

**Pigment Type:** Micaceous Iron Oxide (3.5 lbs/gal)

**Sheen:** Flat

**Colors:** Standard Brownish Grey and Black

**Volume Solids:** 62.0% ± 2.0

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

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

**Recommended Film Thickness**:
Wet: 4.8-8.0 mils (122-203 µm)
Dry: 3.0-5.0 mils (76-127 µm)

**Recommended Coverage Per Coat:**
199 $ft^2$/gal at 5.0 mils DFT - 331 $ft^2$/gal at 3.0 mils DFT
(4.9 $m^2$/l at 127 µm DFT – 8.1 $m^2$/l at 76 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** | 4 hours | -- | 2 hours | -- | 1 hour | -- |
| **Re-coat Minimum[1]** | 8 hours | 1 hour | 6 hours | 30 minutes | 4 hours | 20 minutes |
| **Full Cure** | 10 days | 7 days | 7 days | 5 days | 5 days | 4 days |

**Humidity, temperature and coating thickness will affect re-coat and curing times. [1]14 day outer re-coat window on clean surfaces. Refer to Wasser's PURQuik® Accelerator Product Data for additional information.*

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## Recommended Systems

**Ferrous Metals (New Construction / Full Removal):**

| | |
|---|---|
| 1st Coat: MC-Zinc 100 | 3.0-5.0 mils DFT |
| 2nd Coat: MC-Ferrox B 100 | 3.0-5.0 mils DFT |
| 3rd Coat: MC-Ferrox A 100 | 2.0-4.0 mils DFT |
| Or MC-Luster 100 | |
| Or Polyflex 102 Rapidthane | 6.0-10.0 mils DFT |
| Total System DFT: | 14.0-24.0 mils DFT |
| 1st Coat: MC-Miozinc 100 | 3.0-5.0 mils DFT |
| 2nd Coat: MC-Ferrox B 100 | 3.0-5.0 mils DFT |
| 3rd Coat: MC-Ferrox A 100 | 2.0-4.0 mils DFT |
| Or MC-Luster 100 | |
| Total System DFT: | 8.0-14.0 mils DFT |
| 1st Coat: MC-Universal 100 | 4.0-5.5 mils DFT |
| 2nd Coat: MC-Ferrox B 100 | 3.0-5.0 mils DFT |
| 3rd Coat: MC-Ferrox A 100 | 2.0-4.0 mils DFT |
| Or MC-Luster 100 | |
| Total System DFT: | 9.0-14.5 mils DFT |

**Ferrous Metals (Overcoat):**

| | |
|---|---|
| 1st Coat: MC-Miozinc 100 (Spot Prime) | 3.0-5.0 mils DFT |
| 2nd Coat: MC-Ferrox B 100 | 3.0-5.0 mils DFT |
| 3rd Coat: MC-Ferrox A 100 | 2.0-4.0 mils DFT |
| Or MC-Luster 100 | |
| Total System DFT: | 8.0-14.0 mils DFT |
| 1st Coat: MC-Universal 100 (Spot Prime) | 4.0-5.5 mils DFT |
| 2nd Coat: MC-Ferrox B 100 | 3.0-5.0 mils DFT |
| 3rd Coat: MC-Ferrox A 100 | 2.0-4.0 mils DFT |
| Or MC-Luster 100 | |
| Total System DFT: | 9.0-14.5mils DFT |

**Aluminum/Galvanized Metal:**

| | |
|---|---|
| 1st Coat: MC-Ferrox B 100 | 3.0-5.0 mils DFT |
| 2nd Coat: MC-Ferrox A 100 | 2.0-4.0 mils DFT |
| Or MC-Luster 100 | |
| Total System DFT: | 5.0-9.0 mils DFT |

*Note: Use* MC-Ferrox B 100 *as an intermediate over recommended primers for ferrous metal. Not recommended for direct to ferrous metal applications. *Other Systems are available and appropriate. Contact your Wasser Representative for any questions.*

## Compatible Coatings

**Primers:**
MC-Zinc 100
MC-Miozinc 100
MC-Prepbond 100
MC-Universal 100

**Coating Accelerator**
PURQuik® Accelerator

**Topcoats:**
MC-Ferrox A 100
MC-Luster 100
MC-Shieldcoat 100
MC-Tar 100
MC-Ballastcoat 100
MC-Antigraffiti 100
Wasser Polyflex 102 Rapid Thane
Wasser Polyflex 106
Wasser Polyflex 50 series Polyurea

## 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.

**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-Ferrox B 100 is designed for application to 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, heavy rust, 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.

When surfaces are cleaned to bare metal, areas of oxidation, after surface preparation and prior to coating application, should be prepared to specified standard prior to applying the Wasser recommended primer.
Consult the referenced standards, SSPC-PA1 and your Wasser Representative for additional information or recommendations.

## Application Information

MC-Ferrox B 100 can be applied by brush, roll, mitt, airless spray and conventional spray equipment. 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 per gallon 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 - 2800psi |
| Hose: | ¼" to ⅜" |
| Tip Size: | 0.013 - 0.019 |
| 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)
VOC≤0.8 lbs/gal (100g/l)
Meets SSPC Paint 41

## Performance Testing Data

**Contact Wasser Corporation for detailed testing of this product.*

## Ordering Information

Product Numbers: W111.61Standard Brownish Grey
W111.0119 Black

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: | 75°F (24°C) |
| Weight/gallon: | 13.5 ± 1.0 lbs. (1.5 ± .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!**

**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.

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