Wasser combined moisture-cure urethane technology, micaceous iron oxide, and refined coal tar resin to produce a superior corrosion resistant coating. MC-Tar has proven performance in severe exposure, and is recommended for application on various substrates for immersion, atmospheric, and buried environments. It has the ability to provide outstanding barrier protection in one-coat or multi-coat systems.

**Area of Use**

<table>
<thead>
<tr>
<th>Substrates</th>
<th>Possible Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over properly prepared:</td>
<td>Structural Steel</td>
</tr>
<tr>
<td>Ferrous Metal</td>
<td>Work Boats</td>
</tr>
<tr>
<td>Galvanized Metal</td>
<td>Refineries</td>
</tr>
<tr>
<td>Aluminum/Non-Ferrous Metal</td>
<td>Marine/Port Facilities</td>
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<tr>
<td>Metallized</td>
<td>Offshore Platforms</td>
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<tr>
<td>Previously Existing Coatings</td>
<td>Piling</td>
</tr>
<tr>
<td></td>
<td>Barges</td>
</tr>
</tbody>
</table>

**Ready Reference Information**

<table>
<thead>
<tr>
<th>Resin Type:</th>
<th>Urethane</th>
<th>Theoretical Coverage: (\text{at} 1 \text{ mil DFT: 994 ft}^2/\text{gal} ) (\text{at} 25 \mu\text{m DFT: 24.4 m}^2/\text{l})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigment Type:</td>
<td>Coal Tar Pitch and 4.0 lb/gal Coal Tar Pitch and 4.0 lb/gal Micaceous Iron Oxide</td>
<td>Recommended Film Thickness: Wet: 8.1 - 11.3 mils (206 - 287 microns) Dry: 5.0 - 7.0 mils (127 - 179 microns)</td>
</tr>
<tr>
<td>Sheen:</td>
<td>Flat</td>
<td>Recommended Coverage per coat: 142 ft(^2)/gal at 7.0 mils DFT - 199 ft(^2)/gal at 5.0 mils DFT (3.48 m(^2)/l at 179 microns DFT - 4.87 m(^2)/l at 127 microns DFT)</td>
</tr>
<tr>
<td>Colors:</td>
<td>Black and Red Oxide</td>
<td>Clean up: MC-Thinner, MC-Thinner 100, MC-Thinner XMT</td>
</tr>
<tr>
<td>Volume Solids:</td>
<td>62.0% ± 2.0</td>
<td>Thinning: MC-Thinner, MC-Thinner 100, MC-Thinner XMT</td>
</tr>
<tr>
<td>VOC:</td>
<td>&lt;2.8 lb/gal (340 g/l)</td>
<td><strong>Clean up</strong>: MC-Thinner, MC-Thinner 100, MC-Thinner XMT</td>
</tr>
</tbody>
</table>

**Drying Times and Temperatures**

\[\begin{array}{llllll}
\text{At 50\% Humidity} & \text{50\° F/10\° C} & \text{50\° F/10\° C} & \text{75\° F/24\° C} & \text{75\° F/24\° C} & \text{95\° F/35\° C} & \text{95\° F/35\° C} \\
\text{without PURQuik\textsuperscript{®}} & \text{with PURQuik\textsuperscript{®}} & \text{without PURQuik\textsuperscript{®}} & \text{with PURQuik\textsuperscript{®}} & \text{without PURQuik\textsuperscript{®}} & \text{with PURQuik\textsuperscript{®}} & \text{with PURQuik\textsuperscript{®}} \\
\text{Tack Free} & 1 \text{ hr} & -- & 30 \text{ min} & -- & 20 \text{ min} & -- \\
\text{Recoat Minimum\textsuperscript{1}} & 8 \text{ hrs} & \text{1 hr} & 4 \text{ hrs} & \text{30 min} & 3 \text{ hrs} & \text{20 min} \\
\text{Full Cure} & 10 \text{ days} & \text{7 days} & 7 \text{ days} & \text{5 days} & 5 \text{ days} & \text{4 days} \\
\end{array}\]

*Refer to Wasser’s PURQuik\textsuperscript{®} 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.

**Product Features**

- Single Component Moisture Cure Urethane
- No Mixing Errors. No Pot Life
- Easy to apply by brush, roller or spray methods
- Performance comparable to coal tar epoxy coatings
- Low VOC
- Maintains build on edges, threads, and weld seams
- Immersion & Non-Immersion
- Remains flexible over time
- Can be applied at 99% 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\textsuperscript{®} Accelerator for faster recoat and cure times.
**Recommended Systems**

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

1st Coat: MC-Zinc 3.0-5.0 mils DFT  
Or MC-Miozinc  
2nd Coat: MC-Tar 5.0-7.0 mils DFT  
3rd Coat: MC-Tar 5.0-7.0 mils DFT  
Total System DFT: 13.0-19.0 mils DFT

1st Coat: Prepbond 1.5-2.0 mils DFT  
2nd Coat: MC-Tar 5.0-7.0 mils DFT  
3rd Coat: MC-Tar 5.0-7.0 mils DFT  
Total System DFT: 11.5-16.0 mils DFT

### Ferrous Metals (Salt or Fresh Water Immersion):

1st Coat: Zinc 3.0-5.0 mils DFT  
2nd Coat: MC-Tar 5.0-7.0 mils DFT  
3rd Coat: MC-Tar 5.0-7.0 mils DFT  
Total System DFT: 13.0-19.0 mils DFT

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

1st Coat: MC-Tar 5.0-7.0 mils DFT  
2nd Coat: MC-Tar 5.0-7.0 mils DFT  
Total System DFT: 10.0-14.0 mils DFT

### Concrete:

(Interior)

1st Coat: MC-Tar 5.0-7.0 mils DFT  
2nd Coat: MC-Tar 5.0-7.0 mils DFT  
Total System DFT: 10.0-14.0 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.*

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**Performance Testing Data**

### System: MC-Zinc  
MC-Tar  
MC-Tar  
@75°F and 50% RH 7 day min. cure

**Abrasion Resistance:** 172 mg loss  
(ASTM D4060 – CS-17 Wheel, 1,000 cycles/kg load)

**Adhesion:** 1510 psi  
(ASTM D4541)

**Impact:**  
(Direct) 90  
(Reverse) 30

**Prohesion:**  
(Blistering) None  
(Scribe Rate) 9.0

**Salt Fog Resistance:**  
Passes 20,000 hrs.  
(ASTM B117)

**Dry Heat Resistance:**  
Continuous: 150°F (86°C)

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

**Compatible Coatings**

**Primer:**  
MC-Prepbond 2.8  
MC-Zinc 2.8  
MC-Miozinc 2.8  
MC-MioAluminum

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

**Topcoats:**  
MC-Tar 2.8  
MC-BallastCoat

**Coating Accelerator:**  
PURQuik® Coating Accelerator

Revision Date 043004
Surface Preparation

**Ferrous Metal**

Use SSPC-SP1 solvent cleaning to remove contaminants prior to employing surface preparation methods. 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 to remove corrosion and loose or failing paint (feather edges of sound, existing paint back to a firm edge). For immersion or severe service, apply over a Wasser recommended primer. Refer to Primer Product Data for surface preparation information. Not recommended direct to metal in immersion. 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, oil, rust 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-SP12 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 for maximum system performance. Sand glossy surfaces to provide profile.

**Good Practices**

MC-Tar 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 maximum system performance.

When using MC-Tar in 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 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-Tar** 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 agitation. 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 ⅜"  
**Tip Size:** .015-.021

**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

**Nap:** ¼" to ⅜"  
**Core:** Phenolic

**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.

Revision Date 043004
VOC Compliant (National Standards – Industrial Maintenance Coating, and Concrete Protective Coating)
Passes 20,000 hrs ASTM B117 in MC-Zinc/MC-Tar/MC-Tar immersion System

Certifications and Qualifications

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, Modified MDI, Coal Tar Pitch, Toluene
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.

W31.79

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

Wasser High-Tech Coatings’ liability on any claim of any kind, including claims based upon Wasser High-Tech Coatings’ 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 High-Tech Coatings 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.