

Product Description

Wasser combined moisture-cure urethane technology, micaceous iron oxide, and refined tar resin to produce a superior corrosion resistant coating. MC-Tar 100 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

Substrates

Over properly prepared:
Ferrous Metal
Galvanized Metal
Aluminium/Non-Ferrous Metal
Metalized
Concrete
Concrete Block
Previously Existing Coatings

Possible Uses

Water Treatment Facilities
Wastewater Treatment Facilities
Pulp and Paper Mills
Tanks
Hydropower Facilities
Marine/Port Facilities
Offshore Platforms

Chemical Processing Facilities
Refineries
Pipes
Structural Steel
Work Boats
Pillings
Barges

Ready Reference Information

Resin Type: Urethane
Pigment type: Coal Tar Pitch and Micaceous Iron Oxide
Sheen: Flat
Colors: Black and Red Oxide
Volume Solids: 64.0% ± 2.0
VOC: < 0.8 lb/gal (100 g/l)
(Volatile Organic Content)

Theoretical Coverage: At 1 mil DFT: 1026 ft²/gal
At 25 µm DFT: 25.1 m²/l

Recommended Film Thickness:

Wet: 7.8-10.9 mils (198-276 microns)
Dry: 5.0-7.0 mils (127-179 microns)

Recommended Coverage Per Coat:

146 ft²/gal at 7.0 mils DFT - 205 ft²/gal at 5.0 mils DFT
(3.57 m²/l at 179 microns DFT – 5.0 m²/l at 127 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	4 hours	--	2 hours	--	1 hour	--
Recoat Minimum ¹	12 hours	2 hours	6 hours	1 hour	3 hours	30 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
- Performance compatible to coal tar epoxy coatings
- VOC compliant at <100 g/L
- Maintains build on edges, threads, and weld seams
- Immersion and non-immersion service
- 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)
- No outer recoat window on clean surfaces
- Compatible with PURQuik® Accelerator for faster recoat and cure times
- Remains flexible over time

Recommended Systems

Ferrous Metals (Atmospheric/Severe Exposure):

1 st Coat: MC-Zinc 100	3.0-5.0 mils DFT
Or MC-Miozinc 100	
2 nd Coat: MC-Tar 100	5.0-7.0 mils DFT
3 rd Coat: MC-Tar 100	5.0-7.0 mils DFT
Total System DFT:	13.0-19.0 mils DFT

1 st Coat: MC-Prepbond 100	1.5-2.0 mils DFT
2 nd Coat: MC-Tar 100	5.0-7.0 mils DFT
3 rd Coat: MC-Tar 100	5.0-7.0 mils DFT
Total System DFT:	11.5-16.0 mils DFT

Ferrous Metals (Salt or Fresh Water Immersion):

1 st Coat: MC-Zinc 100	3.0-5.0 mils DFT
2 nd Coat: MC-Tar 100	5.0-7.0 mils DFT
3 rd Coat: MC-Tar 100	5.0-7.0 mils DFT
Total System DFT:	13.0-19.0 mils DFT

Aluminum/Non-Ferrous Metals/Galvanized Metal:

1 st Coat: MC-Tar 100	5.0-7.0 mils DFT
2 nd Coat: MC-Tar 100	5.0-7.0 mils DFT
Total System DFT:	10.0-14.0 mils DFT

Concrete¹: (Interior)

Severe duty:

1 st Coat: MC-CR 100	3.0-4.0 mils DFT
2 nd Coat: MC-Tar 100	5.0-7.0 mils DFT
3 rd Coat: MC-Tar 100	5.0-7.0 mils DFT
Total System DFT:	10.0-14.0 mils DFT

2 coat Option

1 st Coat: MC-Tar 100	5.0-7.0 mils DFT
2 nd Coat: MC-Tar 100	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.

Do not use Purquik Accelerator when priming concrete

***Other Systems are available. Contact your Wasser Representative to answer any questions.**

Performance Testing Data

*Contact Wasser Corporation for detailed testing of this product

Compatible Coatings

Primers:

MC-Zinc 100
MC-Miozinc 100
MC-Ferrocilad 100
MC-Prepbond 100
MC-Ultra Build DTM 100
MC-CR 100 (concrete)

Intermediates:

MC-Ferrox B 100
MC-Miomastic 100
MC-CR 100
MC-Ballastcoat 100

Topcoats:

MC-Tar 100
MC-Ballastcoat
MC-Antigraffiti 100

Coating Accelerator:

PURQuik® Coating Accelerator

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, 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 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 100 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 100 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 100 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: 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 - 2800psi
Hose: ¼" to ¾"
Tip Size: .015 - .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: 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.

Certifications and Qualifications

VOC Compliant ≤0.8 lbs/gal (100 gr/ltr) (National Standards – Industrial Maintenance Coating)

Shipping Information

Flash Point:	107°F (42°C)
Weight/gallon:	14.1 ± 1.0 lbs.
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

Wasser Corporation 4118 B Place NW Suite B Auburn, WA 98001
www.wassercoatings.com • 800.627.2968