MC-Prepbond 100
primer

WASSER® ADVANCED COATINGS TECHNOLOGY

Product Description

MC-Prepbond 100 is Wasser's aluminum, low VOC, moisture-cure urethane primer for ferrous and non-ferrous metal substrates. The design benefit of the penetrating nature of this primer/sealer allows for superior adhesion to marginally prepared surfaces when compared with most industrial coatings. It is ideal for use as a tie coat over most existing coatings and can be used in red lead encapsulation systems. Does not create surface tension on aged coating systems.

Area of Use

Substrates

Over properly prepared:
- Ferrous Metal
- Galvanized Metal
- Corten Steel
- Aluminum/Non-Ferrous Metal

Possible Uses

- Water and Wastewater Treatment Facilities
- Food Processing Facilities
- Pulp and Paper Mills
- Tank Exteriors
- Hydro-power Facilities and Penstocks
- Material Handling Equipment
- Marine/ Port Facilities
- Offshore Platforms
- Chemical Processing Facilities
- Refineries
- Structural Steel
- Ballast Tanks (Salt Water)
- Work Boats
- Bridges

Product Features

- Single Component Moisture Cure Urethane
- No Mixing Errors.
- No Pot Life
- Low viscosity for penetrating and sealing surfaces
- Low VOC
- Can be applied at 99% humidity (substrate must be visibly dry)
- Can be applied in below freezing temperatures (no ice or frost)
- Aluminum primer for ferrous and non-ferrous metal surfaces
- Easy to apply by brush, roller, mitt or spray methods
- No Dew Point Restrictions (Substrate must be visibly dry)
- Compatible with PURQuik® Accelerator for faster re-coat and cure times.

Ready Reference Information

Resin Type: Single Component Moisture Cure Aromatic Urethane

Pigment Type: Proprietary Blend

Sheen: Low Gloss

Colors: Silver

Volume Solids: 64.0% ± 2.0

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

Theoretical Coverage:
At 1 mil DFT: 1026 ft^2/gal
At 25 µm DFT: 25.1 m^2/l

Recommended Film Thickness:
Wet: 2.3 – 3.1 mils (58 - 79 µm)
Dry: 1.5 - 2.0 mils (38 - 51 µm)

Recommended Coverage Per Coat:
513 ft^2/gal at 2.0 mils DFT - 684 ft^2/gal at 1.5 mils DFT
(12.5 m^2/l at 50 µm DFT - 16.8 m^2/l at 38.1 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	1 hour	--	30 minutes	--	20 minutes	--
Re-coat Minimum[1]	6 hours	1 hour	4 hours	30 minutes	3 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]On clean surface, recoat within 21 days or consult Wasser. Refer to Wasser's PURQuik® Accelerator Product Data for additional information.*

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Recommended Systems

Ferrous Metals (Overcoat):

*1st Coat: MC-Prepbond 100 (spot prime)	1.5-2.0 mils DFT
2nd Coat: MC-Miomastic 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:	6.5-11.0 mils DFT

*1st Coat: MC-Prepbond 100 (spot prime)	1.5-2.0 mils DFT
2nd Coat: MC-Universal 100	4.5-5.0 mils DFT
3rd Coat: MC-Ferrox A 100	2.0-4.0 mils DFT
Or MC-Luster 100	
Total System DFT:	8.0-11.0 mils DFT

Ferrous Metals (Salt Water Immersion):

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

Ferrous Metals/Corten/Weathering Steel:

*1st Coat: MC-Prepbond 100	1.5-2.0 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:	6.5-11.0 mils DFT

Aluminum/Non-Ferrous Metals:

1st Coat: MC-Prepbond 100	1.5-2.0 mils DFT
2nd Coat: MC-Luster 100	2.0-4.0 mils DFT
Or MC-Ferrox A 100	
Total System DFT:	3.5-6.0 mils DFT

Ballast Tanks (Salt Water):

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

*1st Coat: MC-Prepbond 100	1.5-2.0 mils DFT
2nd Coat: MC-Tar 100	5.0-7.0 mils DFT
3rd Coat: MC-BallastCoat 100	3.0-4.0 mils DFT
Total System DFT:	9.5-13.0 mils DFT

**Note: Severely pitted steel or aggressive surface profiles may require an additional MC-Prepbond 100 coating application.*

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

Compatible Coatings

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

Intermediates:
MC-Miomastic 100
MC-Ferrox B 100
MC-CR 100
MC-Universal 100

Coating Accelerator
PURQuik® Accelerator

Topcoats:
MC-Ferrox A 100
MC-Luster 100
MC-Shieldcoat 100
MC-Tar 100
MC-TruGrip 100
MC-BallastCoat 100

Surface Preparation

Ferrous Metal

Use SSPC-SP1 solvent cleaning to remove oil and grease or other contaminants prior to employing surface preparation methods.
Blast clean surfaces for severe or immersion service projects to SSPC-SP10/NACE No. 2 Near White Metal finish. Prepare surfaces for atmospheric service projects to SSPC-SP6/NACE No. 3 Commercial Blast Clean finish. For minimum surface preparation use conscientious SSPC-SP2 hand tool cleaning or SSPC-SP3 power tool cleaning methods to remove corrosion and loose or failing paint (feather edges of sound, existing paint back to a firm edge).
High Pressure Water Cleaning SSPC-SP12/NACE No.5 to a minimum WJ3/NV2 may also be used to prepare ferrous metal surfaces for atmospheric service projects.
Surface preparation methods should produce a surface profile of 1.0 - 2.0 mils (25.4-50.8 µms).

Corten/Weathering Steel

Prepare surfaces using SSPC-SP12/NACE No. 5 Low Pressure Water Cleaning methods. Supplement SSPC-SP 12 LPWC with SSPC-SP2 and SP3 Hand and Power Tool cleaning where areas show excessive corrosion. Use SSPC-SP1 solvent cleaning to remove oil and grease prior to surface preparation methods.

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.

Good Practices

MC-Prepbond 100 is designed for application to tightly adhering rust. Heavy pack rust must be removed. MC-Prepbond 100 must have a nominal 2.0 mils thickness above the surface proflie.

The surface to be coated must be dry, clean, dull, and free from dirt, grease, oil, heavy 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.

Areas of oxidation after surface preparation and prior to coating application, should be prepared to specified standard

Consult the referenced standards, SSPC-PA1 and your Wasser Representative for additional information or recommendations.

Application Information

MC-Prepbond 100 can be applied by brush, roll, mitt, 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:	1800-2000psi
Hose:	¼" to ⅜"
Tip Size:	0.011-.015
Filter Size:	60 mesh (250 µm)

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

Conventional Spray/HVLP:

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 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 and frost free. On applications below 33°F, 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.

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 SCAQMD Rule 1113 IM Coating effective 1/1/04).
Qualified for use in USDA and FDA inspected facilities

Performance Testing Data

**Contact Wasser for detailed testing of this product*

Ordering Information

Product Numbers:	W051.81
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:	107°F (42°C)
Weight/gallon:	9.5 ± 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

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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