MC-Prepbond 2.8

Product Description

MC-Prepbond is Wasser's universal, 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.

Area of Use

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

Possible Uses
Bridges
Tank Exteriors
Material Handling Equipment
Pulp and Paper Mills
Chemical Processing Facilities
Marine
Hydropower Facilities
Water and Wastewater Treatment Facilities
Structural Steel
Food Processing Facilities
Refineries
Ballast Tanks (Salt Water)
Work Boats
Pipes

Ready Reference Information

Resin Type: Urethane

Pigment type: Proprietary Blend

Sheen: Flat

Colors: Aluminum

Volume Solids: 62.0% ± 2.0

VOC: < 2.8 lb/gal (340 g/l)
(Volatile Organic Content)

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

Recommended Film Thickness:
Wet: 2.4-3.2 mils (122-203 microns)
Dry: 1.5-2.0 mils (76-127 microns)

Recommended Coverage Per Coat:
497 ft^2/gal at 2.0 mils DFT - 663 ft^2/gal at 1.5 mils DFT
(12.2 m^2/l at 3.2 microns DFT - 16.2 m^2/l at 2.4 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 hour	--	30 minutes	--	20 minutes	--
Recoat 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 recoat and curing times
[1]21 day outer recoat window on clean surfaces or consult Wasser Representative
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
- Low viscosity for penetrating and sealing surfaces
- Low VOC
- Can be applied at 99% relative humidity (substrate must be visibly dry)
- Can be applied in below freezing temperatures (no ice or frost)
- Universal primer for various metal surfaces
- No dew point restrictions (substrate must be visibly dry)
- Compatible with PURQuik® Accelerator for faster recoat and cure times

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Recommended Systems

Ferrous Metals (Overcoat):

1st Coat: MC-Prepbond	1.5-2.0 mils DFT
2nd Coat: MC-Miomastic	3.0-5.0 mils DFT
3rd Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Total System DFT:	6.5-11.0 mils DFT

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

Ferrous Metals (Salt Water Immersion):

1st Coat: MC-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

Corten Steel:

1st Coat: MC-Prepbond	1.5-2.0 mils DFT
2nd Coat: MC-Ferrox B	3.0-5.0 mils DFT
3rd Coat: MC-Ferrox A	2.0-4.0 mils DFT
Or MC-Luster	
Total System DFT:	6.5-11.0 mils DFT

Aluminum/Non-Ferrous Metals:

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

Ballast Tanks (Salt Water):

1st Coat: MC-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

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

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

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

Performance Testing Data

Dry Heat Resistance:
Continuous: 250°F (120°C)

*Contact Wasser Representative for detailed testing of this product

Compatable Coatings

Primers:

MC-Zinc 100	MC-Zinc 2.8
MC-Miozinc 100	MC-Miozinc 2.8

Intermediates:

MC-Ferrox B 100	MC-Ferrox B 2.8
MC-Miomastic 100	MC-Miomastic 2.8
MC-CR 100	MC-CR 2.8

Topcoats:

MC-Ferrox A 100	MC-Ferrox A 2.8
MC-Luster 100	MC-Luster 2.8
MC-Shieldcoat 100	MC-Shieldcoat 2.8
MC-Tar 100	MC-Tar 2.8
MC-BallastCoat	

Polyflex 102 Rapid Thane
Polyflex 201 PW
Polyflex 202 High Chem
Polyflex 401 Polar Serve

Coating Accelerator:
PURQuik® Coating Accelerator

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

Prepare surfaces for non-immersion or atmospheric service projects using SSPC-SP12/NACE No. 5 Low Pressure Water Cleaning methods to remove surface contamination. Supplement SSPC-SP 12 LPWC with SSPC-SP2 and SSPC-SP3 Hand and Power Tool Cleaning or SSPC-SP6/NACE No. 3 Commercial Blast Clean methods where areas show excessive corrosion, or loose and failing paint (feather edges of sound, existing paint back to a firm edge).

Areas cleaned to bare metal should exhibit a surface profile that will support mechanical coating adhesion. Aggressive surface profile may require additional coating application to ensure proper coverage.

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Corten Steel

Prepare surfaces using SSPC-SP12/NACE No. 5 Low Pressure Water Cleaning methods. Supplement SSPC-SP 12 LPWC with SSPC-SP2 and SSPC-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 SSPC-SP3 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

Good Practices

MC-Prepbond is designed for application to tightly adhering rust. Heavy pack rust must be removed.

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 can be applied by brush, roll, 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:	.011 - .015
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

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)
Qualified for use in USDA and FDA inspected facilities

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Ordering Information

Product Numbers: W05.81

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:	75.2°F (24°C)
Weight/gallon:	9.2 ± 1.0 lbs. (3.2 ± .12 kg/l)
DOT HAZARD CLASS	Not regulated under 119 gal. (450 liters) **COMBUSTIBLE** above 119 gal.
DOT PACKAGING GROUP	III
DOT LABEL	Flammable Liquid
DOT SHIPPING NAME	PAINT
DOT PLACARD	3
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, Modified MDI, 4,4'-Diphenylmethane Diisocyanate

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.

W05.81

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

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