

MC-Metallization Sealer 100

specialty

WASSER
ADVANCED COATINGS TECHNOLOGY

Product Description

MC-Metallization Sealer 100 is Wasser's clear and high gloss aesthetic topcoat. Designed for sealing thermal spraid substrates. It provides excellent resistance to UV, weathering and abrasion in a moisture cure urethane coating. This topcoat selection has reliable, aliphatic urethane topcoat performance and its moisture cure properties allow for application in various service environments, on various project types, or substrates.

Product Features

- Single component Moisture Cure Urethane
- Low VOC
- No mixing errors
- No pot life
- Easy to apply by brush, roller or spray methods
- Minimal outgasing during application
- UV, impact and abrasion resistant
- Versatile clear topcoat for various substrates
- Can be applied up to 99% relative humidity
- No Dew Point Restrictions (Substrate must be visibly dry)
- Can be applied in below freezing temperatures (no ice or frost)
- Compatible with PURQuik® Accelerator for faster re-coat and cure times

Area of Use

Substrates

Over properly prepared:

- Thermal Spray Metallizing
- Galvanized metal

Possible Uses

- Bridges
- Tank Exteriors
- Material Handling Equipment
- Structural Steel
- Pipes

Ready Reference Information

Resin Type: Moisture Cure Aliphatic Urethane

Pigment Type: Clear

Sheen: Gloss

Colors: Clear

Volume Solids: 66.0% ± 2.0

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

Theoretical Coverage:

At 1 mil DFT: 1059 ft²/gal
(25 µm DFT: 26 m²/l)

Recommended Film Thickness:

Wet: 2.4-3.5 mils (61-89 µm)
Dry: 1.6-2.3 mils (41-58 µm)
Refer to recommended systems below

Recommended Coverage Per Coat:

530 ft²/gal at 2.0 mils DFT - 1059 ft²/gal at 1.0 mils DFT
(13.0 m²/l at 51 µm DFT - 26.0 m²/l at 25 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	8 hours	4 hours	3 hours	40 minutes	80 minutes	35 minutes
Re-coat Minimum¹	10 hours	1 hour	8 hours	30 minutes	6 hours	20 minutes
Full Cure	10 days	7 days	7 days	5 days	5 days	4 days

¹**MAXIMUM RE-COAT TIME: 8 hr. @ 75°F / 24°C.** *Humidity, temperature and coating thickness will affect re-coat and curing times. It is mandatory to re-coat within 24 hours. After 24 hours, contact Wasser representative. Refer to Wasser's PURQuik® Accelerator Product Data for additional information.

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Recommended Systems

Atmospheric Exposure

Thermal Spray Metallizing/Galvanised Metals:

1st Coat: MC-Metallization Sealer (mist coat) 0.6-0.8 mils DFT
Flash off 15 minutes

2nd Coat: MC-Metallization Sealer	1.0-1.5 mils DFT
Total System DFT:	1.6-2.3 mils DFT

1st Coat: MC-Metallization Sealer (mist coat) 0.6-0.8 mils DFT
Flash off 15 minutes

2nd Coat: MC-Metallization Sealer	1.0-1.5 mils DFT
3rd Coat: MC-Ferrox A 100	2.0-4.0 mils DFT
or MC-Luster 100	
Total System DFT:	3.6-6.3 mils DFT

Compatible Coatings

Thermal Spray Substrates:

Primers:

MC-Universal 100
MC-Prepbond 100
MC-Zinc 100
MC-Miozinc 100

Intermediates:

MC-Ferrox B 100
MC-Miomastic 100
MC-Universal 100

MC-Metallization Sealer:

MC-Ferrox A 100
MC-Luster 100
MC-Shieldcoat 100

Coating Accelerator

PURQuik® Accelerator

Surface Preparation

Thermal Spray Metallizing

Prepare surfaces using SSPC-SP1 Solvent Cleaning to clean any grease or contamination from the metallization process. Followed by SSPC-SP16 brush off blast cleaning to create an even finish to remove any over spray of metallization. Blow down with clean compressed air to remove any particles or contaminants.

Ferrous Metal

Apply to clean, dry, Wasser recommended primers. Refer to the primer Product Data for additional information.

Good Practices

MC-Metallization Sealer is designed for application to a variety of substrates and coatings. Apply a test sample to a small area to determine coating adhesion and/or compatibility. Prime any areas cleaned to bare metal with a Wasser recommended primer and coating system. 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.

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

Application Information

MC-Metallization Sealer 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.

Airless Spray:

Pump Ratio: 28 - 40:1
Pressure: 2000-2200psi
Hose: ¼" to ⅜"
Tip Size: 0.015-0.017
Filter Size: 60 mesh (250 µm)
Reduction: Reduce 20-25% with MC-Thinner, MC-Thinner 100 or MC-Thinner XMT.

Brush/Roller: (For touch up only)

Brush: Natural Fiber
Roller: Natural or synthetic fiber cover
Nap: ¼" to ⅜"
Core: Phenolic
Reduction: Reduce with 25% with MC-Thinner, MC-Thinner 100 or MC-Thinner XMT.

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: Reduce 20-25% with MC-Thinner, MC-Thinner 100 or MC-Thinner XMT.

Reducer:

MC-Thinner, MC-Thinner 100, (if VOC regulations restrict thinning, use MC-Thinner XMT). Thin up to 25% 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 Wasser coatings.

Application Conditions

Temperature: 23°-86° F (-5°-30°C) This temperature range should be achieved for ambient, surface and material temperature. Substrate must be visibly dry and frost free. 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.

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Performance Testing Data

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

Ordering Information

Product Numbers: W281.0 (Gloss)
Package Size: 1 and 5 gallon pails
Shelf Life: 12 months from date of shipment when stored unopened at 75°F (24°C).

Shipping Information

Flash Point:	86°F (30°C)
Weight:	8.35– 8.85 lbs/gal. (1.00–1.06 k/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.

Wasser Corporation's liability on any claim of any kind, including claims based upon Wasser Corporation's 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 Corporation be liable for consequential or incidental damages. Published Product Data Sheets are subject to change without notice.

Contact your Wasser Representative or the Wasser website for the most current Product Data Sheets.