

EVERROOF® PRIMER M40

Water Based Metal Primer

TECHNICAL DATA SHEET

Primer M40 is a water based, acrylic-metal primer for steel surfaces. Primer M40 is an interior and exterior metal maintenance primer that is free of heavy metal hazards.

FEATURES AND BENEFITS

Primer M40 is fast drying, VOC (less than 100 gms./liter), and rust inhibitive.

RECOMMENDED USES

- Blasted Steel
- Ferrous Metal
- Galvanized Metal
- Non-Ferrous Metals

COLOR

White

COVERAGE

Depending on the substrate, Primer M40 has a coverage rate of 1/4 to 1/2 gallon per 100 square feet or 205-342 sqft/gallon.

PACKAGING

5-Gallon Pail

55-Gallon Drum

STORAGE AND STABILITY

The shelf life of Primer M40 is 12 months from the date of manufacture when stored in original unopened containers at temperatures between 50–75°F (10–24°C). Keep containers closed and store in a dry, cool place away from direct sunlight, heat, sparks, open flame, and moisture.

SURFACE PREPARATION

Surface must be dry and in sound condition. Remove oil, dust, dirt, mill scale, rust, and other contaminants to ensure good adhesion.

For maximum performance, the surface must be abrasive blasted for proper adhesion. All blasted steel must be primed the same day.

Iron and Steel:

Remove all grease and oil from the surface by solvent cleaning per SSPC-SP1. Minimum surface preparation is Hand Tool Clean per SSPC-SP2, or Power Tool Clean per SSPC-SP3. For better performance, the surface should be blast cleaned to Commercial Blast per SSPC-SP6.

TECHNICAL DATA

Curing Mechanism		Solvent Evaporation/Oxidation	
Drying Schedule (temperature & humidity dependent) @ 50% RH @ 5 mils wet:			
	40°F (4.4°C)	77°F (25°C)	110°F (43°C)
To Touch	4 hrs	2 hrs	1 hr
Tack Free	4 hrs	2 hrs	1 hr
To Recoat	4 hrs	2 hrs	2 hrs
To Top Coat	6 hrs	4 hrs	4 hrs
Note: Brush application may require multiple coats to achieve maximum film thickness and uniformity of appearance.			
Flash Point		74°F (24°C) (Pensky-Matens Closed Cup)	
Recommended Spreading Rate			
Wet mils		5.0 - 8.0	
Dry mils		2.0 - 3.0	
Approximate sqft/gallon		205-342	
Volatile Organic Compound, (gms./liters) ASTM D2369-81		86 g/l, or 2.57 lbs./gal.	
Total Volume Solids (%)		40% $\pm$ 2	
Total Weight Solids (%)		50% $\pm$ 2	
Weight/Gallon (lbs/gal)		10.35	

RECOMMENDED EQUIPMENT

Primer M40 is designed for airless or conventional spray equipment. It can be applied using an airless sprayer, brush, or phenolic resin core roller.

Methods

Brush:

China Bristle. Confined to small areas and touch-up

Airless Spray:

Pressure: 1800- 3000 psi

Tip: .015" - .019"

Filter: 60 mesh / hose: 1/4"

Conventional Spray:

50 psi atomization pressure, 15-20 psi fluid pressure. Binks gun model 18, air nozzle 63PB, fluid nozzle 63C or equivalent equipment.

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MIXING INSTRUCTIONS

Primer M40 should be thoroughly blended using a mechanical mixer at slow speed or for at least 5 minutes if mixed by hand.

Reducer: Water

Reduction: Airless spray: None

Conventional spray: reduce up to 5% by volume as necessary to be compatible with the existing application and environmental conditions.

APPLICATION INSTRUCTIONS

Direct contact of the steel surface and primer is necessary for adhesion and rust inhibition.

Coat all edges, corners, welds and crevices.

Application Conditions:

Temperature: air, surface, material: 50°F – 120°F (at least

5°F above the dew point)

Relative Humidity: 85% maximum. Do not apply if rain, dew fog, heavy moisture, or freezing temperatures are in the 8 hour forecast.

MAINTENANCE

Periodic maintenance of EVERROOF® Roofing Systems ensures extended performance and reduces life cycle costs.

TECHNICAL SERVICES

Additional information, product brochures, and guide specifications are available. Roof energy evaluations, life cycle cost analysis, and other roof management services are also available from an EVERROOF® Technical Consultant.

PROTECTIVE EQUIPMENT

Since Primer M40 is atomized into a very fine particle distribution during spray application, it is essential that maximum effort is made to protect the spray mechanic and others near the workplace from undue exposure.

The best form of protection is the use of Type C organic vapor cartridge respirators. To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves. Wear safety glasses or OSHA-approved protective goggles.

PROTECTION OF THE WORKPLACE

Overspray from Primer M40 can carry considerable distances and attention should be given to the following:

1. Post warning signs a minimum of 100 feet from the work area.
2. Cover all intake vents near the work area.
3. Minimize or exclude all personnel not directly involved with the spray application.
4. Provide adequate ventilation.

HEALTH AND SAFETY

EVERROOF® is committed to the health and safety of our customers. EVERROOF® products shall only be installed by certified contractors. Applicators are required to follow all proper handling, safety and installation procedures. Safety Data Sheets (SDS) are available on this material. Any individual who may come in contact with these products should read and understand the SDS.

VAPOR INHALATION

For exterior use only. Do not use indoors. Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

SKIN CONTACT

To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves. Skin contact with liquid components can result in a rash or other irritation. Wash the affected skin area with water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with 30% solution of rubbing alcohol. Follow the alcohol wipe with repeated washings with soap and water. If a rash or other irritation develops, see a physician.

EYE CONTACT

Eye Contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

LIMITED WARRANTY. We warrant our Products to be free of manufacturing defects and to comply with the Product's current published physical properties when tested under controlled conditions. Our sole responsibility is limited to replacement of that portion of any Products found to be defective at the time of manufacture. There are no other warranties of any nature whatsoever, whether expressed or implied, including an express disclaimer of any warranty of merchantability or fitness for a particular purpose. Further, we disclaim any liability for damages of any type, however caused, including remote, consequential damages, or special damages resulting from any theory of liability, whether based on tort, negligence, or strict liability. We disclaim responsibility for any claims of intellectual property infringement through use of our Products in any manner. No warranty or guarantee is issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, abnormal wear and tear, or improper application by the applicator. Damage caused by abuse, neglect, lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded. In all instances and as a pre-condition to any available remedy, we reserve the right to conduct sample testing and performance analysis on any materials claimed to be defective, performed prior to any repairs being made by owner, general contractor, or applicator. Our limited warranty is void if repairs have been made or attempted, or if the claimed defect has been adulterated prior to our ability to conduct a formal investigative analysis.

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