

Maclac Product Line Information Sheet

R. J. MCLENNON CO. INC.
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42 SERIES MACTEK LOW VOC HIGH SOLIDS PRIMERS

Description

The 42 Series Primers are fast drying, high solids low VOC rust inhibitive modified alkyd primer for use on steel surfaces. These Low VOC primers are lead and chromate free. Additionally, they are free of zinc compounds. The 42 series primers now contain the latest generation of non-toxic synergistic corrosion inhibiting pigments

Available in four standard colors: Note - these four products meet the specification tests outlined on next page

U-187 Red Oxide U-197 Gray
U-12 White U-226 Black

Specifications

These are representative values only: see specific product data sheets for exact figures.

Weight per Gallon:	11.20 - 11.60	Coating VOC:	340 G/L (2.82 Lb/Gal) (Maximum)
Solids by Weight %:	65.0 - 68.0	Material VOC:	240 - 260 G/L (2.0 - 2.17 Lb/Gal)
Solids by Volume %:	42.0 - 43.5		
Coverage @ 1mil	=680 - 700 SqFt./Gal.		
Viscosity:	30 - 35 Seconds Zahn 2		

Surface Preparation

Surfaces must be commercially clean and free of dirt, grease and water. Remove any rust deposits. For optimum performance apply to blasted steel in accordance with Steel Structures Painting Council Commercial Blast Cleaning Method #6 (SSPC-SP-6). For mild corrosive environments or steel that is to be enclosed or protected, clean in accordance with No. 2 Hand Tool Cleaning (SSPC-SP2), or No. 3 Power Tool Cleaning (SSPC-SP3) or High Pressure Water Blasting.

No Maclac paint product has ever contained any lead. But if you are preparing previously painted surfaces with unknown paints please observe the following precautions. Warning! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NOISH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Mixing & Thinning

Product as supplied is ready to spray. If any thinning is required, then we recommend thinning with Acetone, as this will not change the VOC content. Additional thinning with a non-exempt thinner will raise the VOC content. Thoroughly mix the material by stirring or shaking prior to application.

Application & Dry

These primers are designed for spray application only. They may be applied with conventional, airless, air-assist airless or HVLP spray equipment.

The 42 Series Primers will dry to touch within 20 minutes, and dry for light handling in about 1 hour when applied to approximately 1 mil dry film thickness. We recommend allowing dry times of 24 hours per mil dry film for rugged handling. Colder than standard conditions will greatly extend the drying time. We recommend this material to be applied to achieve 2 - 3 mils dry film.

LIMITED WARRANTY

The information contained herein is offered to assist customers in determining whether our products are suitable for their applications. We request that customers examine our products before use and satisfy themselves as to their suitability. We warrant that our products will meet our written specifications. Since application circumstances, substrate condition and product intermix are beyond our control, we cannot guarantee results under all possible situations. R.J. McGlennon Co. Inc. makes no representation as to the results the user will achieve. Technical advice furnished by seller or any seller's agents shall not constitute a warranty. Any liability arising out of any condition resulting from the use of any R.J. McGlennon Co. Inc. product shall be limited to replacement of such product.

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This primer is lift-resistant, and may be topcoated with enamels, lacquers, epoxies, urethanes, and DTM waterborne coatings. Note: for topcoating with high performance 2 part catalyzed epoxies or polyurethanes, see your technical representative for specific recommendations.

Performance & Durability

The four standard colors in this series of primers have been laboratory tested, and they meet or exceed the significant performance requirements of:

Federal Specifications: TT-P-645A, TT-P-636D, and TT-P-664

SSPC-Paint No. 13 and SSPC-Paint No. 25.

Note: Compositional requirements will vary in order to meet health and environmental regulations. All testing is done with dry film thickness of 2 – 3 mils.

Test Results Follow:

SALT SPRAY: (FOG) Method: ASTM B 117-73

500 hours. No rusting beyond scribe. No blistering, cracking, softening or delamination of surface coating. Tested on phosphate treated "Q" panels coated with minimum 2 mils dry film.

RELATIVE HUMIDITY: Method: ASTM D 2247-68

(Coated Metal at 100% relative humidity). No effect after 500 hours continuous exposure.

QUV: Method: ASTM G 53-77

Operating Light and Water Exposure Apparatus for Exposure of Non-metallic Materials. QUV cycles of 50% UV Light and 50% condensation. Passes 250 hrs with no blistering; no cracking; no softening or delamination of surface coating.

ELONGATION: Method: ASTM D 522-60

Conical Mandrel. Coating applied to sandblasted steel panels and cured 30 days at 77 F. Passes 1/8 In. mandrel with not less than 35 percent elongation.

ABRASION: Method: ASTM D 4060

CS-17 wheel, 500 grams load. Not more than 30 mg, loss after 500 cycles.

ADHESION: Method: ASTM D 3359-78 Method B

Crosshatch adhesion. Coating system applied to sandblasted steel panels and cured 30 days 77 F. Passes 5B rating.

IMPACT TEST: ANSI A224.1 1990 (Section 3.3) Prime Painted Steel Surfaces For Steel Doors And Frames.

Paint tested with Gardner Impact Tester using 1/2 inch diameter ball with 20 inch-pounds of direct impact applied to the coated surface. Result: No paint film removal.

Environmental & Safe Handling

Warning: flammable mixture. Do not use near heat, sparks, flames, or any ignition sources. Do not cut empty containers. Use only with adequate ventilation.

Since air quality regulations are not consistent throughout the country, or even within the state of California, always check with your local air quality district prior to using these products.

Soak up spills with inert absorbent. Since hazardous waste regulations are not consistent throughout the country contact your local hazardous waste agency with information from the MSDS to get instructions for proper disposal. Section 2 of the MSDS contains components considered hazardous in the product as supplied. See the material safety data sheet for more information.

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Technical advice furnished by seller or any seller's agents shall not constitute a warranty. Any liability arising out of any condition resulting from the use of any R.J. McGlennon Co. Inc. product shall be limited to replacement of such product.