



Commercial • Industrial • Residential

PROTECH High Performance Finishes

Multi Master™ VST

ACRYLIC POLYURETHANE ENAMEL SATIN/EGGSHELL - (4389 Series)

ACRYLIC POLYURETHANE ENAMEL SEMIGLOSS - (4489 Series)

DESCRIPTION

Multi Master™ is a high performance, single component, waterborne **Acrylic Urethane** coating with **exceptional** adhesion and toughness that is complimented with a quality **self-priming** finish, providing performance that is equivalent as Direct-To-Metal (DTM) coatings.

Formulated with a proprietary Variable Substrate Technology (VST), this universal coating, designed for interior and exterior applications, provides both functionality and aesthetic value in a **low odor, non-flammable, fast-drying** formulation.

This product offers **excellent** flow & leveling, an **exceptionally** hard-wearing finish and **great** block resistance for Commercial, Light Industrial and DIY applications.

Self-crosslinking enamel has **excellent** resistance to humidity, weathering and UV exposures in addition to corrosion resistance.

INTENDED USE:

- **Exceptional bonding and flash rust resistance** this product is **designed** to be applied over a **wide variety of substrates** including metals, fiberglass, wood, concrete, masonry, plaster, drywall and Pre-finished siding.
- **Suitable for** Institutional High Performance protection, USDA inspected surfaces, along with ornamental steel, maintenance areas, kitchens, dining areas, schools, hospitals or where durability and high performance properties are required.

Coating Properties

Coating Category	Waterborne Acrylic Urethane
Package Size	Available in one gallon and five gallon pails
Mix Ratio	N/A – <u>Single Component</u> 1K
Viscosity (Mixed) - KU	93 – 98 KU's
Recommended Film Thickness (per coat): Wet Film Dry Film	4.1 – 5.8 mils 1.4 – 2.0 mils

Test Results

Substrate:	Steel
Surface Preparation:	SSPC-SP6
Coating:	Multi Master VST (Satin/Eggshell and Semi-Gloss)
Cure Time:	7 Days
Adhesion (Crosshatch; Aluminum/Steel): Method: ASTM D3359 – Method B Result: 4B – 5B (Excellent) Depending on Substrate 100% Adhesion for light colors; Darker colors require longer cure time for same level of adhesion	
Mildew & Mold Resistant:	This coating contains a Biocide and Mildewcide package which inhibits the growth of mold, mildew and algae on the surface of this coating film.

CERTIFICATIONS:

MPI Approvals – #161 and 163
Meets SCAQMD and LEED v.4 VOC restrictions

MARKETS / END-USES:

- Storage Tanks & Piping
- Exterior Structural Steel
- Plant Maintenance
- Ornamental Steel
- Dry Goods Containers
- HVI Maintenance
- Buildings & Warehouses
- Machinery & Equipment
- New Construction & Manufacturing Facilities
- Healthcare
- Education
- OEM
- Food Processing & Commercial Kitchens

SUBSTRATES:

- Pre-Painted Surfaces
- Concrete / Masonry
- Ferrous Metals
- Non-Ferrous Metals
- Fiberglass
- PVC / Composites
- Wood
- Gypsum Wallboard

PRODUCT WEIGHT:

10.20 – 10.50 lb. per gallon

GLOSS LEVEL:

GL3 = Satin/Eggshell - Low Gloss, Rich Appearance, High Durability, Easy to Clean, Ideal for High Traffic areas
GL5 = Semi Gloss - Higher Gloss, Maximum Durability, Ideal for Higher Moisture areas and Areas that Take a Lot of abuse

VOC INFORMATION:

Bases	VOCs (g/L)
Satin/Eggshell	<100g//L*
438901 – White Base	
438903 – Deep Base	
438904 – Neutral Base	
Semi Gloss	<100g//L*
448901 – White Base	
448903 – Deep Base	
448904 – Neutral Base	

* without Tint colorant
Tinting with colorants changes the VOC

TINT COLORANT TYPE:

Universal Tinting or 896 Colorants
For Maximum Durability, primer is recommended

TINT LOAD CAPACITY:

Check with your Rodda Paint store or sales representative for tinting information





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Coverage Information

Mixed Volume Solids (May vary by Base & Color)	34% +/- 2%
Theoretical Coverage	272 – 388 square feet per gallon per coat Note: Actual coverage may vary depending on substrate texture, application methods, and specified dry film thickness
Applied Coverage	200-400 Sq. ft. /gal - Actual coverage will vary depending on substrate and application method Please contact your Sales Representative for specific project recommendations
Pot Life (at 50% RH)	Not applicable, this is <u>single component</u> product
Shelf Life	Minimum Shelf Life of Three Years when stored in unopened containers at 70°F Store in container sized for minimal air space
Induction Time	None required
Finish:	<u>Satin/Eggshell</u> <u>Semi-Gloss</u> Gloss 55 – 60 @ 60°, GL 5 Sheen 60 – 70 @ 85° 20 – 25 @ 60°, GL 3 25-35 @ 85°

Application Parameters

Relative Humidity Restrictions	Do not exceed 90% during application or curing phase Substrate temperatures to be 5F above dew point
Minimum Application Temperature	50°F (substrate)
Maximum Application Temperature	90°F (substrate)
Service Temperature (Continuous):	180°F (substrate)
Service Temperature: (Intermittent):	220°F (substrate)
Application & Curing Information	<u>At 77°F and 50% Relative Humidity:</u> Dry to touch : 30 minutes Dry to recoat : 2 hours Dry hard : 7-14 days Note: Higher film thickness and humidity, or lower temperature will slow dry/cure times
Technical Notes	<ul style="list-style-type: none"> This coating is Not Formulated for Immersion Service or a Continuous High Moisture Environment Do not apply when the relative humidity is above 90% or when a surface will be subjected to temperature below 50°F. Ensure enclosed areas are adequately ventilated during curing phase to prevent excessive humidity build up which can affect sag resistance or cure Superior performance will result from priming with a rust inhibitive primer on ferrous metal surfaces This coating is Not Recommended For Floors

COATING RECOMMENDATION:

For best performance, **two** coats are recommended over properly prepared surfaces

MIXING:

- Mix thoroughly and slowly to a uniform consistency ensuring not to introduce air into the product
- For multiple containers, mix paint together for color consistency
- Approve color prior to application – color chip approximates the color

THINNING /REDUCERS:

- Ideally do not thin
- Can be thinned with up to 5% clean/potable tap water
- In hot environments it may be necessary to add 913 Latex Reducer Additive to the paint to improve workability – 4 to 8 fluid ounces per gallon should be considered
- Use least amount of additive to provide desired workability

Note: Excessive reduction with water can cause flash rusting on steel and reduce sag resistance during application

APPLICATOR INFORMATION:

BRUSH:

Use a nylon/polyester brush

ROLLER COVER:

Use a 1/4" – 1/2" nap synthetic cover depending on the degree of texture of the surface to be painted

AIRLESS SPRAY:

Pressure 2,000 psi; Tip: .011 to .015

HVLP SPRAY:

Cap Pressure 10 psi; 1.3 Tip

EQUIPMENT CLEANING:

- Immediately wipe up any drips or spatters with a damp cloth
 - Clean application tools immediately after use with warm soapy water and rinse thoroughly
 - If pausing for a break, wrap wet applicator in plastic wrap or seal in a poly bag
 - Prevent rusting of spray equipment – flush with a compliant cleanup solvent after cleaning
- NOTE:** Make sure to follow the manufacturer's safety recommendations when using solvents





Substrates and Surface Preparation

SURFACE PREPARATION IS IMPORTANT - All surfaces must be of uniform porosity, clean, dry and free of mildew, grease, chalk, soap film, sanding dust or other contaminants that could interfere with adhesion of the coating

- Remove all loose or peeling material from previously painted surfaces
- Wash with an appropriate cleaner/mild detergent and water solution, rinse thoroughly and allow to dry
- Ensure all substrates to be coated are free of Mildew, Mold, Algae or other biological contaminants
 - Wash with a cleaner such as JOMAX or bleach/water (1:3) solution - Apply the solution, scrub the mildewed area, allow solution to remain on the surface for 10 minutes, rinse thoroughly and allow to dry
- Repair all cracks, holes and other voids with an elastomeric patch or elastomeric sealant.
- On glossy or smooth surfaces, scuff sand using appropriate sandpaper to provide a uniformly dulled appearance
- Remove all sanding dust, scraped, sand-peeled and checked paint prior to painting
- Do not apply at ambient or substrate temperatures below 50F

FERROUS METAL:

- Clean metal of any contaminants by pressure washing or solvent wiping in accordance with SSPC-SP-1. At a minimum, power tool clean the metal per SSPC-SP-3 being careful not to polish the metal.
 - Wire Wheeling should be avoided to prevent polishing the metal
- Properly prepared metal surface should have appropriate sharp & angular profile for the paint to mechanically bond.
- For improved coating performance, any and all corrosion must be removed with sandpaper, wire brush or other abrasion method.
- Prime all properly prepared ferrous metal with suitable primer after proper surface preparation to prevent flash rusting and improve adhesion performance.

NON-FERROUS METAL & FIBERGLASS:

- Clean the metal/fiberglass surface of any contaminants such as oil, grease, mold release or dirt.
- At a minimum, scuff sand the metal or fiberglass surface with appropriate sandpaper to provide a uniformly dulled surface with adequate surface profile and remove sanding dust prior to painting.
- Apply a bonding primer suitable for the metal being painted if mechanical surface preparation is not possible.

SURFACE PREP FOR UNPAINTED MASONRY:

- Remove all surface contamination, form release agents, moisture curing membranes, mildew, efflorescence, etc. by washing with an appropriate cleaner. Then rinse and allow to dry.
- Do not apply to damp or wet surfaces.
- Concrete or mortar needs to be cured approximately 30 days at 70F.
- For porous CMU substrates use appropriate block filler and back roll to fill voids.
 - Do not apply block filler to smooth surfaces as peeling may occur.

NEW OR BARE WOOD:

- Remove mill glaze and expose fresh wood cells prior to applying appropriate wood sealer or primer. Use chemical solution or sand with appropriate sandpaper.
- Remove sanding dust prior to application of sealer or primer.
- Seal with correct primer for wood substrates.

PRE-PAINTED SURFACES:

- Wash with a mild detergent and water solution. Rinse thoroughly, allow to dry thoroughly.
- All glossy or hard smooth surfaces should be scuff sanded using appropriate sandpaper to provide a uniformly dull appearance on all substrates.
- Remove all sanding dust prior to painting.

WARNING! If you scrape, sand or remove old paint from any surface 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 NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information on surfaces that may contain lead paint, contact the U.S. EPA / Lead Information Hotline at 1.800.424.LEAD (5323).

PRIMER RECOMMENDATION:

Steel (ferrous metal):

For **Maximum Durability**, prime with EcoLogic 70323 Primer

Galvanized Metal:

EcoLogic 70323 Primer

Aluminum (non-ferrous metal):

Cloverdale ClovaPrep 83020 Epoxy or 83060 Vinyl Wash Primer

Fiberglass:

First Coat Bonding Primer or other Approved Suitable Bonding Primers

Masonry (other than porous block):

First Coat Bonding Primer or pHLEX-TITE Elastomeric Primer

Porous Masonry Block:

Fill voids with 501901 Sprayable Block Filler

Interior Dry New Wood:

Unique II Undercoater or First Coat Bonding Primer

Interior Dry Wall:

Scotseal Primer





TECHNICAL DATA SHEET

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Safety Precaution

Safety Precautions: For detailed information please refer to this product's safety data sheet (SDS) – A copy of which can be found on our website, www.rodmapaint.com under Products/Product Data Sheets and SDS

First Aid: In case of eye contact, flush immediately with plenty of water for at least 15 minutes. Wash contaminated skin with soap and water. If ingested, call physician or the Poison Control Center immediately.

Updates/Amendments

Please visit www.rodmapaint.com for the most recent versions of Technical Data Sheets and Safety Data Sheets

Limitation of Liability

To the best of our knowledge, the technical data contained herein are true and accurate at the time of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. All technical advice, recommendations and services regarding this product are rendered by the Seller gratis.

They are based on technical data which the Seller believes to be reliable and are intended for use by persons having skill and know-how, at their discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from this product use by Buyer whether as recommended herein or otherwise. Such recommendations, technical advice or services are not to be taken as a license to operate under or suggest infringement of any patent.

WARRANTY

Rodda Paint Co. manufactures quality products and warrants its product to be free from defects in materials and workmanship. In the event that this product is defective or in any way unsuitable for the application for which it was sold, Rodda Paint Co. will REPLACE ANY PRODUCT PROVED TO BE DEFECTIVE free of charge OR REFUND THE ORIGINAL PURCHASE PRICE OF THE QUANTITY PROVED. This warranty is the only guarantee of quality made in respect of this product by Rodda Paint Co. By purchasing this product the customer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the customer or implied by any applicable law.

TO BE DEFECTIVE – Requests for refund or replacement of product must be made in writing within one year from the original date of purchase. This Warranty does not apply to defects due, directly or indirectly, to misuse, abuse, negligent application, or acts of God.

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READ LABEL AND SAFETY DATA SHEET PRIOR TO USE!



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Formulated and Manufactured
in Portland, Oregon, USA

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