



TECHNICAL DATA SHEET

Commercial - Industrial - Residential

Exterior Acrylic Latex

PROTECTOR XL-100

FLAT (4122 Series)

VELVET (4622 Series)

SATIN (4222 Series)

DESCRIPTION

Protector XL-100 is an **excellent** choice when you expect **great performance** at a **great value!** A **proven performer** that **exceeds** expectations on delivering a **quality exterior finish** for your budget.

100% Acrylic Latex paint, **fortified with X-Link technology** provides early moisture resistance. It is formulated with extra titanium dioxide for **high hide, excellent coverage** and **great color retention**.

Exceptionally versatile, designed to perform in all environments, it is ideally suited for **'ALL' seasons**, be it for repaint or new projects. Protector XL-100 **extends** the painting season allowing low temperature application, down to an air and surface temperature of 35F.

INTENDED USE:

- This **'Best in Class'** product is **designed** for Professional Contractors, for usage on **surfaces** such as, properly prepared wood, trim, siding, masonry, brick, concrete, cement, stucco, plaster, EFIS, fiber cement composite, shingles, vinyl and pre-painted aluminum siding. This product can also be used on properly primed metal surfaces like gutters and downspouts.

COATING PROPERTIES

Coating Category	Exterior Acrylic Latex
Package Size	Available in one gallon and five gallon pails.
Mix Ratio	N/A
Viscosity (Mixed) - KU	95 – 105 KU's
Recommended Film Thickness (per coat):	
Wet Film	4.0 mil
Dry Film	1.4 mil

TEST RESULTS

Substrate: Aluminum panel	
Surface Preparation: N/A (Self-Priming)	
Coating: PROTECTOR XL-100 Exterior Acrylic Latex (Flat, Velvet and Satin)	
Dry Time: 2 Days	
Early Rain Resistance: Method: Shower Test Result: 200+ seconds	Spatter Resistance: Method: ASTM D4707 Result: 5 – 10
Coverage Hide: Method: ASTM D2805 Result: 97 – 98	Surfactant Leach Resistance: Method: ASTM D7190 Result: 7 – 10, after 3 days
Flexibility: Method: ASTM D522 (1/4" Mandrel) Result: Pass (1/4" bend)	Alkali Resistance: Method: 2% Sodium Hydroxide over 2 hours Result: Pass
Sag Resistance: Method: ASTM D4707 Result: 25 – 35 mils	Abrasive Scrub Resistance: Method: ASTM D2486 Result: 2500 Cycles With Non-Abrasive Media and Stiff Bristle Brush
Biological Growth: Method: ASTM D3273 Result: < 1+	
Mildew & Mold Resistant: This coating contains a Biocide and Mildewcide package which inhibits the growth of fungi, mildew and mold on the surface of this coating film.	

CERTIFICATIONS:

MPI Approved – #10, 15

MARKETS / END-USES:

- Commercial
- New Home Construction
- Multi-Family
- Maintenance
- Residential
- Re-Paint
- Routine Color Changes
- Facilities
- Education
- Warehouses

SUBSTRATES:

Properly Primed:

- Wood Siding – Clapboard, Shingles, Shakes
- Plywood – T-111, OSB
- Masonry – Brick, Pre-Cast, Cast-in-Place
- Fiber Cement Composite – Siding, Panels
- Stucco – EFIS, Traditional
- Metals – Ferrous, Non-Ferrous
- Vinyl

PRODUCT WEIGHT:

9.13 - 10.94 lb. per gallon (depending on the base)

GLOSS LEVEL:

GL1 = Flat /Non-Reflective, High Hide

GL2 = Velvet /Slight Sheen, Durable, Easy Clean

GL3 = Satin /Low Gloss, Rich Appearance

SKU# & VOC INFORMATION:

Bases	VOCs (g/L)
White Base:	<100 g/L*
412201 – Flat	
462201 – Velvet	
422201 – Satin	
Deep Base:	<50 g/L*
412203 – Flat	
462203 – Velvet	
422203 – Satin	
Neutral Base:	<50 g/L*
412204 – Flat	
462204 – Velvet	
422204 – Satin	

* Without Tint colorant

Tinting with colorants changes the VOC

TINT COLORANT TYPE:

Universal Tinting or Zero VOC Colorant

TINT LOAD CAPACITY:

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



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Page 1 of 4

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COVERAGE INFORMATION

Mixed Volume Solids (May vary by Base & Color)	Flat 36% +/-2%	Velvet 36% +/-2%	Satin 31% +/-2%
Mixed Weight Solids (May vary by Base & Color)	Flat 51% +/-2%	Velvet 48% +/-2%	Satin 43% +/-2%
Finish: Gloss Sheen	Flat <5 @ 60°, GL 1 GL 3	Velvet 4 – 6 @ 60°, GL 2	Satin 15 – 20 @ 60°
	<5 @ 85°	5 – 15 @ 85°	N/A
Theoretical Coverage	518–612 Sq. ft. /gal at 1.0 mils dry film thickness Note: Actual coverage may vary depending on substrate, application methods, and specified dry film thickness		
Applied Coverage	350-400 Sq. ft. /gal Note: Actual coverage may vary depending on substrate, application methods, and specified dry film thickness Please contact your Sales Representative for specific project recommendations		
Shelf Life	Maximum Shelf Life of 3 years when stored in unopened containers.		
Storage Temperature	Store indoors at 40-90F. Keep from freezing! Subject to re-inspection.		
Pot Life (at 50% RH)	Not applicable, this is a <u>single component</u> product		
Induction Time	Not applicable		

APPLICATION PARAMETERS

Relative Humidity Restrictions	Do not exceed 90% during application or curing phase		
Minimum Application Temperature	35°F (substrate)		
Maximum Application Temperature	95°F (substrate)		
Application & Curing Information	<u>At 50% Relative Humidity:</u>		
	35F – 50F	51F – 75F	76F – 95F
	Dry to Rain: 1 – 2 hours	1 – 1.5 hours	1/2 – 1 hour
	Dry to Touch: 2 – 4 hours	1 – 2 hours	1/2 – 1 hour
Dry to Recoat:	12 – 48 hours	5 – 11 hours	1 – 4 hours
Technical Notes	<p>Note: Film thickness, temperature, humidity and air movement will affect dry/cure times</p> <ul style="list-style-type: none"> This coating is Not Formulated for Immersion Service or a Continuous High Moisture Environment Not Recommended for application when the relative humidity is above 85% or when surface will be subjected to temperature <35F Substrate temperature must be 5F above Dew Point Temperature Superior performance will result from properly priming (see Surface Preparation section) FOR EXTERIOR USE. Not Recommended For Floors. 		

COATING RECOMMENDATION:

- Apply two coats at 1.4-2.0 mils per coat (2.8-4 dry mils total) over properly prepared surfaces

NOTE: Air, surface and product temperature must be at 35F-95F during application and drying.

DO NOT paint if snow or freezing temperatures are expected within 24 hours.

MIXING:

- Stir thoroughly to a uniform consistency
- 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
- In Hot, Dry environments, it may be necessary to add clean potable tap water or **Rodda Paint Latex Reducer (59134)** to improve performance/workability, especially for spraying.
- Use least amount of reducer/water to provide desired workability
NOTE: Excessive reduction can reduce sag resistance during application

APPLICATOR INFORMATION:

BRUSH:

Use a nylon/polyester brush

ROLLER COVER:

Use a 3/8" – 3/4" nap synthetic cover depending on the degree of texture of the surface to be painted

AIRLESS SPRAY:

Pressure 2,000 psi

Tip: .015 to .019

Back roll with spray application

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





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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

- 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 1:3 bleach/water solution - Apply the solution, scrub 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
- Confirm the Substrate is dry and 5F above the Dew Point Temperature to prevent moisture condensation on surface before application and during the cure phase
- Do not apply at ambient or substrate temperatures below 35F
- Surface preparation short of total removal and cleanup will compromise the longevity of the application

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.
- 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.

VINYL/PVC BUILDING PRODUCTS:

- Scrub surface thoroughly with warm, soapy water, rinse properly, prime with the appropriate primer.
- Darker colors with Light Reflective Value (LRV) <56 could cause vinyl to warp.

NOTE: Vinyl siding should only be repainted with light colors to help avoid warping/buckling – avoid painting with colors darker than the original color. See and follow all siding manufacturer's guidelines and recommendations - Straying from manufacturer's painting guidelines could cause the warranty to be voided.

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:

- For optimal hide and color representation use Rodda Paint's PrimeSolutions First Coat Primer or Surf Bond II Primer
- For drastic color changes it is imperative to use a coat of primer for the best hide performance and color representation

Steel (Ferrous Metal):

Metal Master Primer, EcoLogic 70323 Primer, Barrier III HS Metal Primer

Galvanized Metal:

Metal Master Primer, EcoLogic 70323 Primer, PrimeSolutions First Coat Primer

Aluminum (non-ferrous metal):

ClovaPrep 83020 Epoxy, 83060 Vinyl Wash Primer or PrimeSolutions First Coat Primer

Rusted Metal:

CorroSeal Rust Converter or Barrier III HS Metal Primer

Fiberglass, Doors, Vinyl Siding:

PrimeSolutions First Coat Primer or suitable bonding primer

Concrete, Cement Composition

Siding/Panels, New Masonry,

New Masonry Block, Brick,

Stucco:

Self-Priming if **PH <9**

For **PH >9-13**, use PrimeSolutions First Coat Primer, pHLEX-TITE Elastomeric Primer or Surf Bond II Primer

Porous Masonry Block:

Fill voids with 501901 Sprayable Block Filler

Exterior Dry New Wood,

Plywood T-111:

PrimeSolutions First Coat Primer

NOTE: If tannin staining appears on cedar/redwood, apply a 2nd coat of PrimeSolutions First Coat Primer and allow to dry thoroughly before top coating

Exterior Gypsum Wallboard

(protected areas):

Self-Priming

CAULKING RECOMMENDATION:

- Repair surface using an appropriate filler – make sure to fill cracks, holes, voids and any irregularities
- Fill all gaps between windows, doors, trim, etc. with the appropriate caulk
- Allow the Caulk to dry as per the appropriate drying time before application of the paint
 - RODDA PROPlus Siliconized Acrylic Sealant (4-6 hrs)
 - Pro Stretch Acrylic Urethane Elastomeric Sealant (4-6 hrs)

NOTE: Check with your Rodda Paint store or Sales Representative for advice



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Page 3 of 4
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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 - 25-YEAR LIMITED 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.

Rodda Paint. WILL NOT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCT, INCLUDING DOWNTIME OR LOSS OF USE OF PRODUCT.

All data, statements, and recommendations made herein are based upon information we believe to be reliable, but are made without any representation, guarantee or warranty of accuracy. Our products are sold on the condition that the user themselves will evaluate them, as well as our recommendations, to determine the suitability for their own purpose before adoption. Also, statements regarding the use of our products or processes are not to be construed as recommendations for their use in violation of any patent rights or in violation of any applicable laws or regulations.

See your Rodda Sales Rep or Store Manager for details.

READ LABEL AND SAFETY DATA SHEET PRIOR TO USE!



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Page 4 of 4
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