

Imron[®] 1.5 PR Waterborne Polyurethane Primer



GENERAL

DESCRIPTION

An isocyanate-free, single component, VOC conforming (1.5 lbs/gal), zero HAPs primer based on unique Axalta waterborne polyurethane copolymer technology. This coating is designed to be highly durable and to establish a new standard of performance for waterborne coatings that deliver very good chemical and corrosion resistance.

PERFORMANCE PROPERTIES

Excellent
Excellent

SUGGESTED USES:

As a primer on carbon steel (blasted, phosphate-treated, mill scale bearing), galvanized steel, stainless steel, treated aluminum, e-coat, concrete, concrete block, fiberglass, wood and many plastics where:

- Low VOC and/or zero HAPs coating is required
- Minimizing environmental impact and reducing cost for permitting, abatement and waste disposal are important
- 30 minute recoat, 2 hour air cure or 20 minute bake will improve productivity
- One component, no induction time and unlimited pot life minimize work and speed preparation time
- Application by brush and roller, in addition to spraying, may be necessary
- Single coat applications of 3-5 mils dry film thickness (DFT) are required

NOT RECOMMENDED FOR:

- Immersion service or floors
- Direct applications to rusted surfaces

COMPATIBILITY WITH OTHER COATINGS

- Imron 1.5 PR can be topcoated with Imron 1.2 HG, Imron 1.5 ST-D and/or Imron 1.2 HG-C for a complete waterborne coating system. Imron 1.5 PR can also be topcoated with Corlar® epoxies and/or Imron polyurethanes where additional gloss and chemical resistance are required. On rusted surfaces, Imron 1.5 PR can be applied over Corlar epoxies.
- Imron 1.5 PR is highly compatible with most coating types. It may be used over most aged and hard-cured coatings in good condition.

Testing for lifting, bubbling and adhesion is recommended to assure compatibility with unknown coatings. Contact Axalta Coating Systems for specific recommendations.

The products referenced herein may not be sold in your market. Please consult your distributor for product availability.

COLOR

1632WF White 1637WF Cirrus Gray 1633WF Shale Gray 711WF Red Oxide 1640WF Black





MIXING

COMPONENTS Imron 1.5 PR Factory packaged colors

1 gallon container (100% fill, 128 oz.) 5 gallon container (100% fill, 640 oz.)

MIX RATIO Ready to use

ACTIVATION None Required

MIXING AND REDUCTION

When thinning, use clean near neutral, (pH 6-8) water. If you do not know the quality or pH of the local water supply, thin with distilled or de-mineralized water. **Do not** thin with hard water.

Thinning recommendations Airless Conventional Pressure Pot HVLP Brush & Roll Reduction Amount No reduction recommended 0-10% by volume 0-10% by volume 0-10% by volume

Note: Reduction with water will slow dry time and reduce film build.

- Do not mix on a paint shaker.
- Mechanically power mix Imron 1.5 PR with low (100-200) rpm's until smooth and uniform.
- Filter paint using nylon or cotton filters before filing spray equipment. Do not use polyester filters.

APPLICATION THINNERS

Water

INDUCTION TIME

None

POT LIFE

N/A. See Additional Comments in Cleanup Thinners.



APPLICATION

APPLICATION CONDITIONS

Do not apply if the application surface or ambient temperature is below $50^{\circ}F$ ($10^{\circ}C$) or above $95^{\circ}F$ ($35^{\circ}C$), or if the atmospheric temperature is within $5^{\circ}F$ of the dew point. Relative Humidity should be above 30% and below 90%.

SURFACE PREPARATION

For best results, all surfaces must be clean, dry and free of loose rust, oil, grease, and all other contamination. Can be applied over SSPC-SP-6 Commercial Blast cleaned steel and other properly prepared substrates (see Compatibility Section). Can be applied SSPC-SP 2 Hand Tool Cleaned or SSPC-SP 3 Power Tool Cleaned with some sacrifice in performance. Can be applied over previously painted surfaces in good condition after checking for adhesion.

When using Imron Waterborne Polyurethane Copolymer over rusted surfaces that cannot be blast cleaned:

- Prepare surface in accordance with SSPC SP-2 Hand Tool Clean or SSPC SP-3 Power Tool Clean.
- Prime with Corlar 2.1 ST or Corlar LV-SG.
- Apply Imron 1.5 PR and/or Imron 1.2 HG



APPLICATION EQUIPMENT

Apply by spray for best results. Imron 1.5 PR may also be applied by brush or roller with some sacrifice in appearance.

- Do not apply using a suction or gravity feed gun. •
- For best results, use dedicated spray lines, guns and stainless steel equipment. •

Manufacturers listed below are a guide. Others may be used. Changes in pressure and tip size may be required to achieve proper application.

Roller

Wooster® Pro/Doo-Z®, 1/4" - 1/2" nap

Brush

Wooster Nylon Bristle

Airspray Manufacturer

Manufacturer	DeVilbiss	Sata
Spray Gun	JGA	K3 RP
Fluid Tip	1.4 FF	1.1
Air Cap	777	
Fluid Line	3/8"	3/8"
Pressure Pot	15-25 psi	40 psi
Atomizing Air	50-60 psi	36 psi

Fluid lines 3/8" ID or larger are required for proper fluid delivery.

Airless Spray

Manufacturer	Graco
Pump Xtreme	33:1
Fluid Hose	3/8" X 100' Max.
Spray Gun	208663
Tip Size	.413515
PŚI:	2400 psi min

Tips for Success

- Application by brush or roll may require multiple coats to achieve the recommended DFT.
- For best appearance, filter material prior to spray application.
- May be recoated by spray when tack-free.

CLEAN UP THINNERS

Water

Imron 1.5 PR dries very fast when exposed to air. Spray equipment should be cleaned as soon as possible after use. If not cleaned after 20-30 minutes, material could harden, plugging spray tips and equipment. If you plan to leave spray gun for more than 20-30 minutes, place in it a bucket of fresh water. Dried paint film, spray equipment, and mixing equipment can be cleaned by soaking and scrubbing with TY-3826 Thinner.



DRY TIMES

Cure Time At Recommended Thickness @ 77°F (25°C), 50% RH*

Tack free 20-30 minutes Dry to Recoat 30 minutes with itself, 1 hour w/ solvent borne Dry To Handle 1 hour Hard Dry 2 hours or bake 120°-160°F for 15-20 minutes *Higher temperatures and air flow will reduce dry times.





PHYSICAL PROPERTIES

Maximum Service Temperature: Gloss (ASTM D 523) Weight Solids (Avg. varies by color): Weight per gallon-(Avg. varies by color): Flash Point-Tag Closed Cup: Volume Solids (Avg. varies by color): Shipping Weight (varies by color):

Shelf Life: Theoretical Coverage Per Gallon*:

Suggested Film Builds**:

250°F (121°C) Satin gloss 30-35 @ 60° angle $46\% \pm 1\%$ 9.60 lbs. (4.35 kg) average >200°F (93°C) $38\% \pm 1\%$ 1 gallon container - 11 lbs 5 gallon container - 52 lbs 1 year minimum 610 ft2 (14.95 m2/L) @ 1 mil DFT 203 ft² (4.97 m²/L) @ 3 mils DFT 122 ft2 (2.99 m2/L) @ 5 mils DFT 8 – 12 mils (400-600 µm) wet (WFT) 3 - 5 mils (75 - 225 µm) dry (DFT) Film builds below 3-5 mils DFT will not provide maximum film properties

*Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

**Application by brush and roller may require additional coats to achieve recommended films thickness.

STORAGE CONDITIONS

Store in a dry, well-ventilated area. Storage conditions should be between 35°F (2°C) and 120° F (48° C). Do not allow product to freeze. When storing partially used open containers, float $\frac{1}{4}$ " of distilled or de-mineralized water over product and reseal Container.

THEORETICAL VOC (LESS WATER AND EXEMPT COMPOUNDS)

VOC Less Exempt, varies with color. 1.5 lbs./gal. (179.8 g/l) average

ASTM INFORMATION

Performance properties are for Imron 1.5 PR only. Properties may be enhanced by use of appropriate primers. For other system recommendations, please contact Axalta.

Paint System: DFT:	Imron 1.5 PR 3-5 mils		
TEST	RESULTS		
Humidity: (ASTM D-2447)	>2000 hours		
Salt Fog: (ASTM B117)	2000 hours (Bondrite 1000 panel)	few small blisters	
3 ()	500 hours (blasted hot rolled steel)	no blisters	
Flexibility: (ASTM D-1737)	@70°F	160 in/lbs	
	@-50°F	100 in/lbs	
Pencil Hardness: (ASTM 33)	63)	B to HB	
Adhesion: (ASTM D-3359)	Ádheres to e-coat, steel, steel castings, treated aluminum, many plastic surfaces, previously painted surfaces, concrete, concrete block, fiberglass, (always test coatings for compatibility and prepare surfaces properly)		



SELECT CHEMICAL RESISTANCE

The following are chemical resistance ratings (1=poor, 10= excellent), after exposure to listed chemicals and 24 hour watch glass exposure.

Chemical Coke Bleach Fantastic Unleaded Gas Cutting Oil Hydraulic Oil Motor oil MEK	Rating 10 9+ 6+ 8+ 9+ 10 10 9	Chemical 1% HCL Acid 1% H2SO4 10% H2SO4 1% Phosphoric 1% NaOH Mineral Spirits 1% Ammonia 5% Ammonia	Rating 8+ 8+ 9 7 8+ 8 8 8
5		•	-
MEK	9	5% Ammonia	8
Ethyl Acetate	8	Toluene	9
Aromatic HC	8	1,1,1 TCE	9

SAFETY AND HANDLING

For industrial use only by professional, trained painters. Not for sale to or use by the general public. Before using, read and follow all label and MSDS precautions. If mixed with other components, mixture will have hazards of all components.

Ready to use paint materials containing isocyanates can cause irritation of the respiratory organs and hypersensitive reactions. Asthma sufferers, those with allergies and anyone with a history of respiratory complaints must not be asked to work with products containing isocyanates.

Do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

All technical advice, recommendations and services are rendered by the Seller gratis. They are based on technical data which the Seller believes to be reliable, and are intended for professional use by persons having skill and know-how at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by Buyer in whole or in part. Such recommendations, technical advice or services are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

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