

## Imron<sup>®</sup> 1.2 HG-C High Gloss Waterborne Polyurethane Clear



## GENERAL

## DESCRIPTION

A high gloss clear, isocyanate-free, single component, 1.2 lbs/gal VOC conforming, zero HAPs coating based on unique Axalta waterborne polyurethane copolymer technology. The resulting coating is designed to be highly durable and to establish a new standard of performance for waterborne coatings delivering very good chemical and corrosion resistance.

## SUGGESTED USES:

As a high gloss clear topcoat over properly prepared and coated 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:

- Restoring gloss to dull, faded finishes avoids the cost of complete re-painting
- Coated surfaces must be easy to clean
- 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
- Very good color and gloss retention are desired

## NOT RECOMMENDED FOR:

- Immersion service or floors
- Direct to metal applications

#### COMPATIBILITY WITH OTHER COATINGS

- Imron 1.2 HG-C (HGC-01) can be applied over Imron 1.5 PR or Imron 1.5 ST-D for a complete waterborne system or over Corlar® epoxies when coating rusted surfaces.
  Imron 1.2 HG-C (HGC-01) may be mixed with Imron 1.8 FT-C to produce semi-gloss or satin clear finishes.
- Imron 1.2 HG-C (HGC-01) 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.

#### COLOR

HGC-01 Clear

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



# A+B+C

MIXING

COMPONENTS Imron 1.2 HG-C

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 1.2 HG-C 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

See comments in Cleanup Thinners section.



## 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 apply Imron 1.2 HG-C (HGC-01) over Imron 1.5 ST-D, Imron 1.5 PR, Imron 1.2 HG or other Axalta industrial coatings. All previously painted surfaces must be tightly adhering. All surfaces must be clean, dry and free of loose rust, oil, grease, and all other contamination.

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 or Imron 1.2 HG-C



#### APPLICATION EQUIPMENT

Apply by spray for best results. Imron 1.2 HG-C 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	DeVilbiss	Sata	Greco	lwata	Binks
Spray Gun	JGA	K3 RP	DeltaSpray XT	W-77, W-71, or W-200	2001 or 95
Fluid Tip	1.4 FF	1.1	1.0 – 1.5	1.2 – 1.8 mm	1.2 – 1.8
mm Air Cap Fluid Line Pressure Pot Atomizing Air	777 3/8" 15-25 psi 50-60 psi	3/8" 40 psi 36 psi			

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

#### Air-less spray

Graco Iwata min	Silver or Plus ALG or Airlessco Guns	Airless tip size .011015 Airless Tip Size .011015	Pump 30:1 min Pump ALG 30:1
Binks	Airless 1	Airless Tip Size .011017	Pump 30:1 min
Kremlin	Airless 250 II	Airless Tip Size .013017	Pump Orca 32:1

#### **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 1.2 HG-C 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 free20-30 minutesDry to Recoat30 minutes with itself, 1 hour w/ solvent borneDry To Handle1 hourHard Dry2 hours or bake 120°-160°F for 15-20 minutes\*Higher temperatures and air flow will reduce dry times.





## **PHYSICAL PROPERTIES**

Maximum Service Temperature: 250°F (121°C) Gloss (ASTM D 523) High Gloss 80-85 @ 60° angle. May be mixed with Imron 1.8 FT-C to produce semi-gloss or satin clear. Weight Solids: 41% ± 1% Weight per gallon: 8.56 lbs. (3.88 kg) average >200°F (93°C) Flash Point-Tag Closed Cup: Volume Solids: 40% ± 1% Shipping Weight: 1 gallon container - 10 lbs 5 gallon container – 45 lbs Shelf Life: 1 year minimum 640 ft2 (15.72m2/L) @ 1 mil DFT Theoretical Coverage Per Gallon: 213 ft² (5.23m²/L) @ 3 mils DFT Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements. Suggested Film Builds: 5 - 7 mils (125 - 175  $\mu$ m) wet (WFT) 2 - 3 mils (50 - 75µm) dry (DFT)

Film builds below 3-5 mils DFT will not provide maximum film properties

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  $35^{\circ}F$  (2°C) and 120° F (48° C). Do not allow product to freeze. When storing partially used open containers, float ¼" of distilled or de-mineralized water over product and reseal container.

## **VOC INFORMATION**

## THEORETICAL VOC (LESS WATER AND EXEMPT COMPOUNDS)

VOC Less Exempt

1.2 lbs./gal. (143.8 g/l) average

## **ASTM INFORMATION**

Performance properties are for Imron 1.5 PR and Imron 1.2 HG-C (HGC-01) system – 4-6 mils. For other system recommendations, please contact Axalta.

Paint System: DFT: Imron 1.5 PR | Imron 1.2 HG-C 4-6 mils

#### TEST RESULTS Humidity: (ASTM D-2447) >2000 hours Salt Fog: (ASTM B117) 2000 hours (Bondrite 1000 panel) no blisters 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 3363) F to H Adhesion: (ASTM D-3359) Adheres 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 (ASTM D-1308) 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 Ethyl Acetate	Rating 10 9+ 6+ 8+ 9+ 10 10 9 8	Chemical 1% HCL Acid 1% H2SO4 10% H2SO4 1% Phosphoric 1% NaOH Mineral Spirits 1% Ammonia 5% Ammonia Toluene	Rating 8+ 8+ 9 7 8+ 8 8 9
Ethyl Acetate Aromatic HC	8 8	I oluene 1,1,1 TCE	9 9
Alomatic HC	0	1,1,1 10L	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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In the United States: 1.855.6.AXALTA axalta.us/industrial In Canada: 1.800.668.6945

