



## ArmourShield 837: XP High Gloss Polyurethane

### Description

The Armourshield XP 837 Series is a two component, tightly crosslinked interpenetrating polymer network of acrylic and polyester urethanes. Virtually HAPS free at less than 1%, this high performance, VOC compliant aliphatic urethane provides superior gloss and color retention, excellent chemical resistance, outstanding abrasion resistance, and a very high gloss ("wet look") finish.

### Coating Properties

Coating Category	Aliphatic Acrylic Urethane
Mix Ratio	4:1
Pot Life @ 50% RH, 25°C (77°F)	2 hours
Induction Time	None
Gloss	High Gloss
In-service Temperature Limits	
Continuous:	93°C (200°F)
Intermittent:	120°C (250°F)
Product VOC (g/L)	<340

### Coverage Information

Volume Solids	60% May vary by base/color
Theoretical Coverage	962 ft <sup>2</sup> /gal (23.6 m <sup>2</sup> /L) @ 1 mil (25 microns) DFT. These coverage rates are based on 100% transfer efficiency
Recommended Film Thickness	Wet: 4.0 - 6.0 mils (100 - 150 microns) Dry: 2.0 - 4.0 mils (50 - 100 microns)
Applied Coverage	<i>Actual coverage will vary depending on substrate and application method. Please contact your Cloverdale Industrial Representative for specific project recommendations.</i>

### Approvals / Certifications

MPI #72  
AWWA D102-11, OCS 5/6  
SSPC Paint 36

### Benefits

Chemical Resistant  
Excellent Gloss Retention  
Excellent Weathering  
Fast Dry  
Good Flexibility on Aging  
Low VOC  
Outstanding Application  
UV Resistant

### Markets / End-Uses

Aircraft  
Commercial Transport  
Farm Machinery  
Oil Field/Refinery Work  
Process Equipment  
Storage Tank Exteriors  
Structural Steel  
Trailers  
Truck Body Builders

### Bases

83703A Clear Base  
83705A Yellow Base  
83701A Deep Base  
83706A Red Base  
83707A Green Base  
83709A Blue Base  
83ARMB Catalyst  
Metallic Grey  
83751A Base





## System Recommendations

Contact your Cloverdale Technical Representative for system recommendations.

## Mixing Instructions

4 Parts A to 1 Part B

- Stir Part A and Part B separately.
- Slowly pour Part B into Part A while mixing well.
- After combining, continue mixing for several minutes more.
- Add thinner if required.

## Methods of Application

### Application Parameters

Relative Humidity	Not to exceed 80 %
Minimum Temperature	10°C (50°F)
Maximum Temperature	35°C (95°F)

### Equipment Settings

Airless Spray	Min. Fluid Capability	1200 psi
	Tip Size	.009" - .013"
Air Spray	Pot Pressure	10 – 20 psi
	Atomizing Air	45 – 65 psi
	Nozzle Set	0.7 - 1.4
Air Assisted Airless	Min Fluid Capability	700 psi
	Atomizing Air	40 - 70 psi
	Tip Size	.009" - .013"
Brush/Roll	Lap marks may be visible. Use solvent resistant equipment.	

## Drying Times

Substrate Temperature	Touch Dry	Hard Dry	Overcoat Times
10° C(50°F)	4 hrs	12 hrs	24 hrs
25°C (77°F)	2hrs	6-8 hrs	12 hrs
35°C (95°F)	1 hr	3 hrs	6 hrs

## Recoat Times

Substrate Temperature	Touch Dry	Hard Dry	Tape Time
10°C (50°F)	4 hrs	12 hrs	N/A
25°C (77°F)	2hrs	6-8 hrs	7-8 hrs
35°C (95°F)	1 hr	3 hrs	N/A

This Urethane can be re coated with itself up to 3 days. After 3 days it must be scuff-sanded for adhesion purposes

## Substrates

Ferrous Metals  
Non-Ferrous Metals

## Thinner

Maximum up to 5% by Volume  
C-7601 Slow Evap. (HAPS-free)  
C-7602 Med. Evap. (HAPS-free)  
C-7603 VOC Compliant  
C-7604 Urethane Thinner

## Equipment Cleaning

C25 MEK Thinner

## Product Weight

Part A 6.37 lbs/gallon kit  
Part B 2.20 lbs/gallon kit

## Shelf Life

2 years on Part A  
2 years on Part B  
Applicable only for material stored in unopened, undamaged factory filled containers stored at 4°C-38°C (39°F-100°F). Subject to reinspection.

## Package Size

1 gallon kit  
5 gallon kit





## Safety Precautions

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**This product is for Industrial / Shop use only.**

**WARNING!** If you scrape, sand or remove old lead 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, Canadian customers contact the Product Safety division of Health Canada at 1-800-O-CANADA, US customers contact the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323).

**WARNING! Use with Adequate Ventilation.** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**WARNING! Proper breathing PPE must be worn during application. Refer to Safety Data Sheet for proper health and safety information, located at [www.cloverdalepaint.com](http://www.cloverdalepaint.com)**

## Updates

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Please visit [www.cloverdalepaint.com](http://www.cloverdalepaint.com) for the most recent versions of Technical Data Sheets and Safety Data Sheets.

**Last Modification date:** 10/02/2017

## 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

Cloverdale Paint Inc. warrants its products to be free from defects in material and workmanship. At its option, Cloverdale Paint Inc. will either replace products not conforming to this warranty or credit the Buyer's account the invoiced amount for the non-conforming products. This is Cloverdale Paint Inc.'s sole obligation and Buyer's exclusive remedy in connection with the products. In no event shall Cloverdale Paint Inc. be liable for special, indirect, consequential or incidental damages.

By purchasing this product the Buyer 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 Buyer or implied by any applicable law.

Any claim under this warranty must be made in writing by the Buyer to Cloverdale Paint Inc. within ten (10) days of discovery of the claimed non-conformance, but in no event later than one (1) year from the delivery date. The Buyer's failure to notify Cloverdale Paint Inc. of such non-conformance as required herein shall bar the Buyer from recovery under this warranty.

**READ LABEL AND SAFETY DATA SHEET PRIOR TO USE.**

