



ArmourShield 839: High Gloss Polyurethane

Description

ArmourShield® 839 Series is a component of the Gemini Tint System®, a high performance intermix system of 100% cross-linked acrylic and polyester urethanes. ArmourShield® 839 Series is virtually HAPs free (less than 1%), provides superior gloss and color retention, excellent chemical and abrasion resistance, and a very high gloss (wet look) finish. ArmourShield® 839 Series can be factory-mixed or intermixed as part of the Gemini Tint System®.

Coating Properties

Coating Category	Acrylic /Polyester 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	62% May vary by base/color
Theoretical Coverage	994 ft²/gal (24.3 m²/L) @ 1.0 mil (25 microns) DFT. These coverage rates are based on 100% transfer efficiency
Recommended Film Thickness	Wet: 4.0 - 7.0 mils (100 - 175 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

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

Benefits

Abrasion Resistant
Excellent Gloss Retention
Excellent Weathering
Fade Resistant
Fast Dry
High Hide
Highly Flexible Film
Low HAPS
Outstanding Application
UV Resistant
VOC Compliant

Markets / End-Uses

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

Bases

83900A	White
83904A	Black
83ARMB	Catalyst
83903A	Base
83952A	Grey Base
83953A	Clear Coat





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	Do not exceed 80%
Minimum Temperature	10°C (50°F)
Maximum Temperature	35°C (95°F)
Application Comment	<ul style="list-style-type: none"> • If 839 Series has cured for more than 3 days, abrade with 180 - 220 grit sandpaper to insure good adhesion for subsequent coats. • Carefully maintain water traps in all air lines. Humid conditions can lead to condensation during the curing cycle, resulting in loss of gloss. • Use of accelerator will shorten pot life.
Performance Tips	<ul style="list-style-type: none"> • For optimum appearance and performance, all metallic colors should be topcoated with 83953 ArmourShield® clear finish coat.

Equipment Settings

Airless Spray	Min. Fluid Capability	2500 psi
	Tip Size	.017" - .019"
Air Spray	Pot Pressure	10 – 20 psi
	Atomizing Air	45 – 65 psi
	Nozzle Set	1.4 - 1.8
Air Assisted Airless	Min Fluid Capability	1500 psi
	Atomizing Air	40 - 70 psi
	Tip Size	.009" - .015"
Brush/Roll	<ul style="list-style-type: none"> • Lap marks may be visible. • Use solvent resistant equipment. 	

Drying Times

Substrate Temperature	Tack Free	Dry to Handle	Hard Dry
25°C (77°F)	2 hrs	2 hrs	3-4 hrs

Substrates

Ferrous Metals
Non-Ferrous Metals

Thinner

C-7601 Slow Evap. (HAPS-free)
C-7602 Med. Evap. (HAPS-free)

Equipment Cleaning

C25 Fast Evap MEK

Product Weight

Part A 11.97 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.

Flash Point

-10°C (14°F) TCC

Package Size

1 gallon kit
5 gallon kit
Drum stock special order



**Recoat Times**

Substrate Temperature	Self Recoat	
	Minimum	Maximum
25°C (77°F)	15 min	3 days

Typical Resistance (Non-Immersion)

Weather	Excellent	Salt Water	Excellent	Acids	Very Good
Moisture	Excellent	Fresh Water	Excellent	Alkalis	Very Good
Solvents	Very Good	Abrasion	Excellent	Oil	Very Good

Safety Precautions

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

Updates

Please visit 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.

