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## PERFORMANCE LIKE NOTHING ELSE



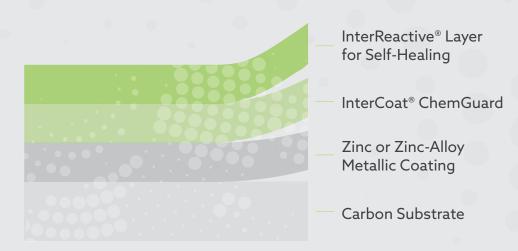




#### WHAT IS INTERCOAT® CHEMGUARD?

InterCoat®ChemGuard is a line of versatile, customizable, corrosion-inhibiting coatings that create a permanent molecular bond with most zinc and zinc-alloy coated substrates such as hot dipped galvanized, galvanneal, electrogalvanized, and ZAM®. This bond, which we call InterReative®, allows for substrate self-healing and cut-edge protection and is illustrated in the graphic below. This mechanism is what sets ChemGuard apart, with over 15 patents worldwide. It is also RoHS and Prop 65 compliant.

Cross-Section Diagram of InterReactive® Coating as Applied to Any Zinc or Zinc-Iron Alloy Metallic Coated Substrate (EG, HDG, GNNL, ZAM®)



InterCoat® ChemGuard is available in standard 'mill finish' as well as black and gray tints, and in some cases replaces the need for post painting applications. It can be used where "pre-patina" / natural finishes are desired.







InterCoat®ChemGuard enhances zinc performance so much so that our customers can buy steel at a lower zinc coating weight and experience equivalent or even improved performance. When tested in a flat panel ASTM B117 salt spray test (third party), our product on a hot-dipped galvanized G30 outperforms even a G235 with a hexavalent chemtreatment.



InterCoat® ChemGuard was designed to produce superior corrosion protection while also embodying customizable characteristics to aid in secondary processing like slitting, stamping, welding, and painting/adhesion promotion. There is an existing ChemGuard formulation that fits almost every production setting.

If one does not exist, our R&D team is ready to custom engineer a ChemGuard coating that best meets your needs.



Find your InterCoat® ChemGuard formulation using our Solution Finder!

#### MARKETS AND APPLICATIONS

#### Construction

Stud, grade board, various clips, and hangers Tinted ChemGuard formulations available for roofing and building panels



#### Packaging

drum chime and ring stock



#### Solar

Framing components, brackets, ballast bay, and other components



#### Automotive

Rocker arm and other covers, sunroof brackets, various electronic housings, and areas prone to corrosion like exposed undercarriage components



#### Bus/Truck/Trailer

Driver platform, and truck cab floor

Various aftermarket parts



#### Agriculture

Fans, building components, and other production and housing equipment



#### **Swimming Pool**

Ideal as a replacement to G235 for in-ground applications



#### Tube & Pipe

Suitable as a life extender for galvanized tube, such as ERW tube









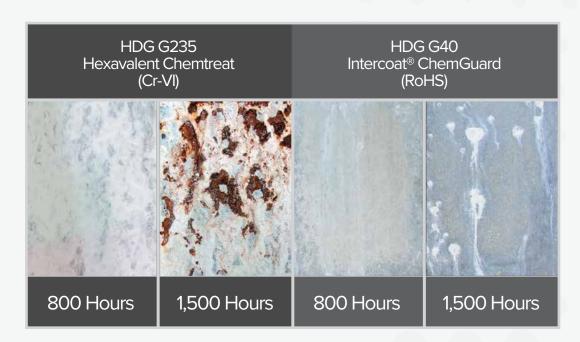




# Compatibility & Corrosion **Performance**

InterCoat® ChemGuard is compatible with most non-passivated zinc or zinc-alloy coated substrates, such as GI, GA, EG, and ZAM®.

#### **ASTM B117 Salt Spray Results**



#### **ASTM B117 Salt Spray Results For:**



# Performance After Secondary Processing

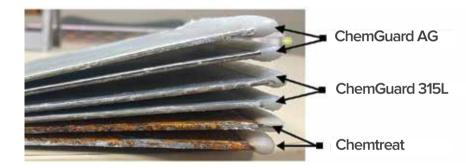
Note: All photos are from an ASTM B117 salt spray test, unless otherwise specified

All standard secondary processing practices (slitting, CTL, blanking) are compatible with InterCoat® ChemGuard.

#### **CUT EDGES**

Thanks to ChemGuard's self-healing InterReative® technology, cut edges and perforations are no match.

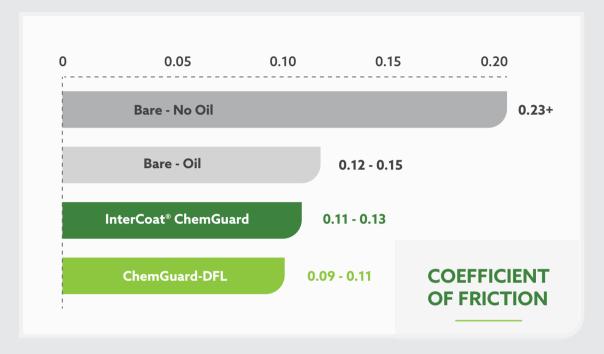
Cut Edge Results on HDG G40- 840 Hours Exposure

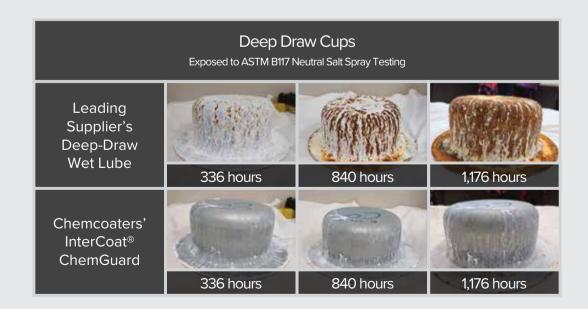


1,000 Hours Exposure



#### STAMPING/FORMING





## Performance After **Secondary Processing**

#### **PAINTING**

InterCoat® ChemGuard can extend its patented protection to further enhance post-painted applications while remaining compatible with your existing downstream processing.

InterCoat® ChemGuard continues to protect the underlying substrate even after the paint fails.

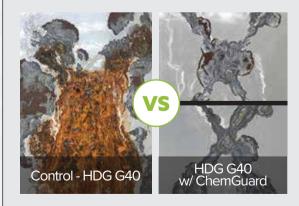






#### **POWDER & SPRAY COATING**

#### 4,000 Hours Exposure



\*Autonomous 5 Stage Powder Coat Line.

### **ELECTROCOATING (ECOAT) & BIW**

#### **750 Hours Exposure**



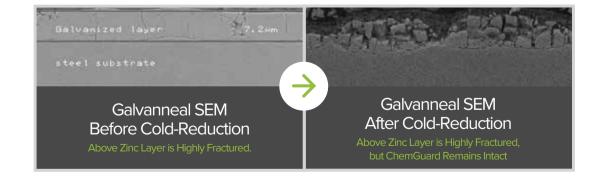
#### **WELDING**

ChemGuard has been utilized in various welding applications.



#### **COLD REDUCTION**

InterCoat®ChemGuard can be cold-reduced up to 50% and maintain its corrosion resistant properties.



## **Other Testing**

At Chemcoaters, we approach everything with an R&D focus. Because of InterCoat® ChemGuard's versatility, our customers' requirements vary greatly based on application. We have put ChemGuard through many paces since its inception in 2010, and never hesitate to learn more.

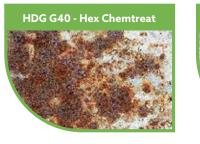
If there is a study you'd like to see that does not appear here, please don't hesitate to reach out to our team.

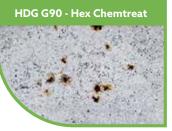
#### **SULFUR DIOXIDE**

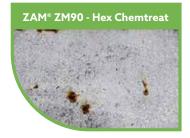


#### **AGRICULTURAL MARKETS (AMMONIA)**

Accelerated Animal Confinement Chamber | All Samples Exposed to 1,200 Hours







HDG G40 -InterCoat® ChemGuard





More information can be found on our website, including a white paper on experimental design.

#### **OUTDOOR**

We currently have had InterCoat® ChemGuard panels in-test in both desert and subtropical conditions for five years and counting- with minimal, if any, corrosion.

#### **SUBTROPICAL REGION**

# Outdoor Weathering Testing - Subtropical Region Q-Lab Florida Facility GA A40 +InterCoat Chemguard 315L 1 Year Exposure 0% White Rust 0% Red Rust

Outdoor Weathering Testing - Subtropical Region  Q-Lab Florida Facility					
HDG G30 +InterCoat Chemguard					
315L	1 Year Exposure 0% White Rust 0% Red Rust	2 Year Exposure 0% White Rust 0% Red Rust	3 Year Exposure 0% White Rust 0% Red Rust	4 Year Exposure 0% White Rust 0% Red Rust	5 Year Exposure 0% White Rust 0% Red Rust

Outdoor Weathering Testing - Subtropical Region  Q-Lab Florida Facility					on
ZAM® + InterCoat Chemguard					
315L	1 Year Exposure 0% White Rust 0% Red Rust	2 Year Exposure 0% White Rust 0% Red Rust	3 Year Exposure 0% White Rust 0% Red Rust	4 Year Exposure 0% White Rust 0% Red Rust	5 Year Exposure 0% White Rust 0% Red Rust

#### **DESERT REGION**

Outdoor Weathering Testing - Desert Region Q-Lab Arizona Facility					
GA A40 +InterCoat Chemguard 315L	1\( cut \subset \text{cut \subset \subset \text{cut \subset \subset \text{cut \subset \subset \text{cut \subset \subset \subset \subset \text{cut \subset \su	2 V 2 2 5 1 1 2 2 1 1 2 2 1 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2	2 V 2 2 5 1 1 2 2 1 1 2 2 1 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2	A Vegu Euresi ve	F Vou Function
9131	1 Year Exposure 0% White Rust 0% Red Rust	2 Year Exposure 0% White Rust 0% Red Rust	3 Year Exposure 0% White Rust 0% Red Rust	4 Year Exposure 0% White Rust 0% Red Rust	5 Year Exposure 0% White Rust 0% Red Rust

	Outdoor Weathering Testing - Desert Region  Q-Lab Arizona Facility				
HDG G30 +InterCoat Chemguard 315L	1 Year Exposure 0% White Rust 0% Red Rust	2 Year Exposure 0% White Rust 0% Red Rust	3 Year Exposure 0% White Rust 0% Red Rust	4 Year Exposure 0% White Rust 0% Red Rust	5 Year Exposure 0% White Rust 0% Red Rust

	Outdoor Weathering Testing - Desert Region  Q-Lab Arizona Facility				
ZAM® + InterCoat Chemguard 315L	<b>1 Year Exposure</b> 0% White Rust 0% Red Rust	2 Year Exposure 0% White Rust 0% Red Rust	3 Year Exposure 0% White Rust 0% Red Rust	4 Year Exposure 0% White Rust 0% Red Rust	5 Year Exposure 0% White Rust 0% Red Rust

#### **GRAVELOMETER**

InterCoat® ChemGuard 315L

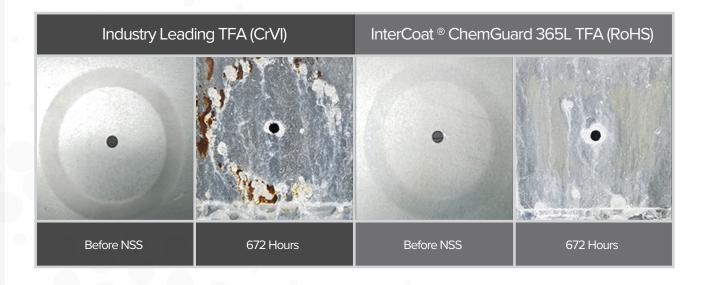
Photos below are after ASTM D3170 Gravelometer and followed by ASTM B117 Salt Spray Testing of both untreated HDG G60 and ChemGuard-coated HDG G30.

. 9.9	Exposed 500 Ho	ırs in ASTM B117		
Exposed to Gravelometer HDG G30 InterCoat® ChemGuard 315L	Control - No Exposure HDG G30 InterCoat® ChemGuard 315L	Exposed to Gravelometer HDG G60 Bare - No Coating	Control - No Exposure HDG G60 Bare - No Coating	
	Exposed 1,000 Ho	ours in ASTM B117		
Exposed to Gravelometer HDG G30 InterCoat® ChemGuard 315L	Control - No Exposure HDG G30 InterCoat® ChemGuard 315L	Exposed to Gravelometer HDG G60 Bare - No Coating	Control - No Exposure HDG G60 Bare - No Coating	
Exposed 1,750 Ho	ours in ASTM B117			
Exposed to Gravelometer HDG G30	Control - No Exposure HDG G30			

InterCoat® ChemGuard 315L

#### **TABER ABRAISON**

Results of Taber Abrasion followed by ASTM B117 Salt Spray









Chemcoaters LLC is a coil-coating and coatings development company located in Gary, IN. For over 20 years, we have been the premier coil coating company in the industry, known for precision and excellence. We serve steel producers, service centers and manufacturers utilizing the resources of our custom designed line.

In everything we do, we push to redefine the steel industry. Everyone tries to solve customer problems; we tackle industry problems before our customers ask.

InterCoat® ChemGuard is made and applied in-house at Chemcoaters in Gary, IN. For additional service requirements or opportunities requiring the use of another coil-coating facility, please inquire.

#### **LINE SPECIFICATIONS**

Causa	Minimum	0.008"	
Gauge	Maximum	0.125"	
Width	Minimum	20"	
wiath	Maximum	72"	
	Coil Weight	72,000 lbs max	
Coil Size	0.0	Minimum 34"	
Coll Size	O.D.	Maximum 84"	
	I.D.	20" & 24"	
*Cross Section	Maximum	6.3"	