

COMPLIANT CHEMISTRY

FROM CONVERSION COATINGS TO TOP COATS

The Pavco compliant chemistry division markets and manages one of the industries most comprehensive and prominent lines of technologies meant to meet the ever-increasing list of compliant chemistry directives. Our HyPro™ family of compliant chemistries can be found around the globe.

HyPro™ has long been a leading brand name for metal finishers that seek compliant chemistries across a wide range. Now more than ever, these chemistries are also required to be true “high performance” coatings in addition to their inherent environmental advantages.

From conversion coatings to organic top-coats, the growing HyPro™ family can meet all of your compliant chemistry needs. New additions to the HyPro™ line-up are expected soon, as our research department is working on technologies that will continue to lead the industry forward.



COMPANY SPECIFIC SPECIFICATIONS

OEM	SPECIFICATION	PAVCO PRODUCTS	DESCRIPTION
General Motors (GM)	GMW3044	HyProTec 1010 & HyproCoat 320	Trivalent Passivate, Sealer Code X, Code U
	GMW3044	HyProTec 1010 & HyProCoat 330	Trivalent Passivate, Sealer Code X, Code U
	GMW 4700	ZN Fe HyProBlu & HyProCoat 320	ZnFe, Trivalent Passivate, Sealer
	GMW 4700	ZN Fe HyProBlack & HyProCoat 320	ZnFe, Black Trivalent Passivate, Sealer
	GMW 4700 Type B	Ziniloy 3028 & HyProTec & HyProCoat 320	High alloy Alkaline ZnNI, Trivalent Passivate & Sealer
	GMW 4700 Type B	Ziniloy 3028 & HyProTec & HyProCoat 330	High alloy Alkaline ZnNI, Trivalent Passivate & Sealer
	GMW 4700 Type B	NiClipse C & HyProTec & HyProCoat 320	High alloy Acid ZnNI, Trivalent Passivate & Sealer
	GMW 4700 Type B	NiClipse C & HyProTec & HyProCoat 330	High alloy Acid ZnNI, Trivalent Passivate & Sealer
Delphi	DX551200	HyProtec & HyProCoat 320	Hexavalent Chromium Free Zn Plating
	DX551200	HyProtec & HyProCoat 330	Hexavalent Chromium Free Zn Plating
	DX551300	Ziniloy 3028 & HyProtec & HyProCoat 320	Zinc Alloy Plating Hexavalent Chromium Free
	DX551300	Ziniloy 3028 & HyProtec & HyProCoat 330	Zinc Alloy Plating Hexavalent Chromium Free
FCA	PS.50031	NiClipse C, HyProTec, HyProCoat320, 330 & 318	Zinc Nickel Alloy Electrodeposited Coatings
	PS-8955 Fe	Ziron, HyproTec, HyProCoat 320	Zinc Iron Alloy Electrodeposited Coatings
	PS-8814	HyProBlu Trivalent Passivate, Superseal, HyProCoat 320	Sealant for Zinc Plated , Passivated Fasteners
	PS-Plating	Engineering App. Source List - Applicators	Zinc Electroplated, Zinc Mechanically Plated
Harley Davidson	ESPEC 805 -050	ZCL-NH4 or Smart Zinc / HyProTec chromate / HyProCoat 330 top coat sealer / HyProCoat 437 friction modified sealer(optional)	Zinc plating for Exterior Use with Sealer
Akebono	AES G 3204	NiClipse C, HyProTec, HyProCoat 320	Electroplated Coating of Zinc & Zinc Alloys on Iron & Steel
John Deere	JDM -F 15	HyProTec, HyProCoat 320, HyProCoat 330 & 445, HyProCoat 570+TTF 810	Electrocoated Zinc Coating on Fasteners
	JDM - F 21	NiClipse C, Ziniloy 3028HyProTec, HyProCoat 320, 330 & 445, HyProCoat 570+TTF 810	Electrocoated Zinc Nickel Coating
	JDM - F -23	HyProTec, HyProCoat 320, 330 & 445, HyProCoat 570+TTF 810	Electrocoated Zinc Coating for non Fasteners

Note: Delphi maintains approved applicator listing

PERFORMANCE BASED SPECIFICATIONS

Pavco® Inc. technologies meet or exceed performance specifications set forth by numerous manufacturers. A variety of Pavco® products can be used to meet each specific requirement as determined by each manufacturer listed below.

OEM	SPECIFICATION	PAVCO PRODUCTS	DESCRIPTION
Ford	WSS-M1P85-B1 & B27 B3	HyProtec & HyProTec 1010	Thin & Thick Film Passivated Zinc Coating
	WSS-M1P85-B4 & B5	HyProtec, HyProTec 1010c & HyProCoat 320 & 330	Thin & Thick Film Passivate & Sealer Zinc Coating
	WSS-M1P87 B1& B2B4	NiClipse-C, HyProTec, HyProCoat320, 330 & 318	Zinc-Nickel, Passivate- Organic and inorganic sealent
		Ziniloy 3028 & HyProtec & HyProCoat 320, HyProCoat 330	Zinc-Nickel, Passivate- Organic & inorganic sealent - black
Mercedes-Benz	DBL 8451	NiClipse-C, HyProTec, HyProCoat320, 330 & 318	Electrodeposited Zinc Alloy Coating
		Ziniloy 3028 & HyProtec & HyProCoat 320, HyProCoat 330	Electrodeposited Zinc Alloy Coating
		HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	Chromates and Sealers for Zinc Coating
BMW	GS 90010-1	NiClipse C- HyProTec, HyProCoat 320, 330 & 318	Electrodeposited Zinc Alloy Coating
		Ziniloy 3028 & HyProtec & HyProCoat 320, 330 & 318	Electrodeposited Zinc Alloy Coating
		HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	Chromates and Sealers for Zinc Coating
Volswagen	TL 244	NiClipse C- HyProTec, HyProCoat 320, 330 & 318	Zinc Nickel Alloy Electrodeposited Coatings
		Ziniloy 3028 & HyProtec & HyProCoat320, 330 & 318	Zinc Iron Alloy Electrodeposited Coatings
	TL 217	HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	Sealant for Zinc Plated , Passivated Fasteners
Nissan	NES M 4040	HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	Zinc Plating and Chromate
Toyota	TSH6524G	HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	Electroplated Zinc Coating
Honda	HES D 2003-05	NiClipse C- HyProTec, HyProCoat 3320, 330 & 318	Electrodeposited Zinc Alloy Coating
		Ziniloy 3028 & HyProtec & HyProCoat320, 330 & 318	Electrodeposited Zinc Alloy Coating
		HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	Chromates and Sealers for Zinc Coating
Suzuki	SN 2402ES	HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	
Tesla Motors	TM-009f-M	NiClipse C- HyProTec, HyProCoat 320, 330 & 318	Electrocoated Zinc-based anti-Corrosion Coatings- Zn and ZnNi
		Ziniloy 3028 & HyProtec & HyProCoat320, 330 & 318	Fasteners based specification
		HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	
Parker Hannifin	PZ1	HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	ZincPlating with Trivalent Conversion Coat & Top Coat
	PZJ	NiClipse C- HyProTec, HyProCoat320, 330 & 318	Zinc Nickel Plating with Trivalent Conversion Coat & Top Coat
		Ziniloy 3028 & HyProtec & HyProCoat320, 330 & 318	
Caterpillar Inc.	1Eo397	HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	Plating - Zinc or Zinc Alloy
		NiClipse C- HyProTec, HyProCoat 320, 330 & 318	
		Ziniloy 3028 & HyProtec & HyProCoat 320, 330 & 318	
ZF TRW	TS2-21-111	NiClipse C- HyProTec, HyProCoat320, 330 & 318	Electroplated ZnNi Alloy for cast Iron
		HyProtec, HyProtec 1010, HyProCoat320, 330 & 318	

Note: Applicators work with FORD Materials Engineering

COMPLIANT PLATING SYSTEMS

DecoTri	NiClipse C	Ziniloy 3028
Hex-A-Gone	NH4	Ziron
K3	SmartZinc	
Merlin	Volta	

For more information on approvals contact Wesley Schmitt at +1 704.496.6820 or email at wschmitt@pavco.com.

More information can be found on our website or in our literature, look for the Compliant Chemistry symbol .

COMPLIANT POST-PLATING SYSTEMS

CLEAR/ BRIGHT BLUE:
HyProBlue 48
HyProTec
HyProTec 1010 Automotive

BLACK:
HyProBlack

YELLOW:
HyProTri Yellow

ALLOY:
ZiniBlack
ZiniBlue

LUBES & TORQUE MODIFIERS:
AutoLube 442
AutoLube Black
HyproCoat 437

TOP COATS & SEALS:
HyPro 200
HyProCoat 318
HyProCoat 320
HyProCoat 330
HyProCoat 570



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