



PPG PRIMERON®
High-performance powder primer series
July 31, 2024



We protect and beautify the world®





PPG powder primers are designed to meet various ISO 12944 corrosivity category standards

Category and Typical Environment				
ÆRE	C1	Indoor: Heated indoor spaces without elevated condensation.		
LEAST SEVERE	C2	Indoor: Unheated indoor spaces with increased condensation. Outdoor: Atmospheres with low level of pollution. Mainly rural areas.		
	C3	Indoor: Production rooms with high humidity and low contamination. Outdoor: Urban and industrial atmospheres with moderate sulfur dioxide pollution. Coastal areas with low salinity.		
	C4	Indoor: chemical facilities, swimming pools. Outdoor: Industrial areas and coastal areas with moderate salinity.		
MOST SEVERE	C5	Indoor: Buildings with almost permanent condensation and heavy air pollution. Outdoor: Industrial areas with high humidity and aggressive atmosphere.		
MOS	СХ	Outdoor: Coastal and offshore areas with high salinity and industrial areas with extreme humidity.		





- Five product lines designed with special features that meet various substrate, environmental and end-use requirements
- Provides high corrosion resistance for a variety of substrates, including steel, hot-dip-galvanized steel, metalized steel and aluminum

Suggested end uses

Gas or liquid tanks and pipelines

Truck, trailer and automotive parts

Agricultural and construction machinery

Automotive underbody and other parts

Seacoast or applications with high corrosion performance requirements



Primeron high-performance product lines



Primeron Legacy

A traditional zinc-rich primer offering our best corrosion protection in this technology



PrimeronOptimal

A zinc-rich primer that delivers exceptional corrosion protection and a balanced offering of other properties



*Primeron*Auto

Designed for layered protection in automotive specialty markets, with options for exceptional flexibility, chip and corrosion resistance, UV durability and outgassing



Primeron Edge

High-edge primer technology offering best-in-class corrosion protection for substrates with sharp and laser-cut edges



Primeron Versa

Outgas-friendly, zinc-alternative primers that provide very excellent corrosion protection for multiple substrates





G Primeron® Legacy

Zinc-rich primer with exceptional corrosion protection





Products, benefits and characteristics

 PCM70140: A traditional zinc-rich primer for use on mechanically pretreated steel, offering our best corrosion protection in this technology



ISO 12944 C4 primer that passes C5 specification for corrosion resistance



Very good flow and appearance



Low bake capability

Suggested Industries

Energy applications

General industrial

Automotive parts and accessories

Suggested End Uses

Gas or liquid tanks and pipelines

Seacoast walls, fences or metal objects

ISO 12944 Corrosivity Category

C4





PPG Primeron® Legacy

Zinc-rich primer with exceptional corrosion protection



Properties	Test Method	Value
Color	-	Dark gray
Surface	-	Semi-gloss, smooth
Gloss at 60°	ISO 2813 55-70	
Specific Gravity	Calculated	3.6 g/cm ³
Impact Posistance	ISO 6272 / ASTM D2794	80 in./lbs. direct
Impact Resistance	130 02727 A3 TWI D2794	80 in./lbs. reverse
Adhesion	ISO 2409	5B, pass
Conical Mandrel	ISO 6860	1/8", pass

Partial Curing	
7 - 10 minutes	275° F (135° C)
3 - 5 minutes	300° F (149° C)
1 - 2 minutes	350° F (177° C)

Full Curing		
20 minutes	275° F (135° C)	
10 minutes	300° F (149° C)	
5 minutes	350° F (177° C)	

Storage Conditions

12 months / 77° F (25° C)

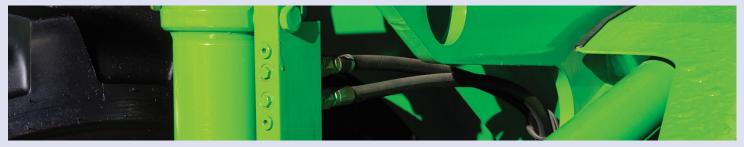




G Primeron® Optimal

Zinc-rich primer with balanced performance properties





Products, benefits and characteristics

 PCMT70149: Exceptional corrosion resistance and a balanced offering of other properties, including better coverage, applied cost, adhesion, semi-conductivity, recoatability and transfer efficiency than traditional zinc primers



Corrosion performance on all substrates



Recoatable with higher transfer efficiency than traditional zinc primers



Almost double the theoretical coverage of *Primeron*Legacy primer

Suggested Industries

Heavy-duty equipment

General industrial

Automotive parts and accessories

Suggested End Uses

Construction/agricultural equipment

Seacoast walls, fences or metal objects

ISO 12944 Corrosivity Category

C5





PPG Primeron® Optimal

Zinc-rich primer with balanced performance properties



Properties	Test Method	Value	
Color	-	Dark gray	
Surface	-	Semi-gloss, smooth	
Gloss at 60°	ISO 2813	55-70	
Specific Gravity	Calculated	2.0 g/cm ³	
Impact Resistance	ISO 6272 / ASTM D2794	160 in./lbs. direct	
Adhesion	ISO 2409	5B, pass	
Conical Mandrel	ISO 6860	1/8", pass	

Partial Curing		
7 - 10 minutes	275° F (135° C)	
3 - 5 minutes	300° F (149° C)	
1 - 2 minutes	350° F (177° C)	

Full Curing		
20 minutes	275° F (135° C)	
10 minutes	300° F (149° C)	
5 minutes	350° F (177° C)	

Storage Conditions

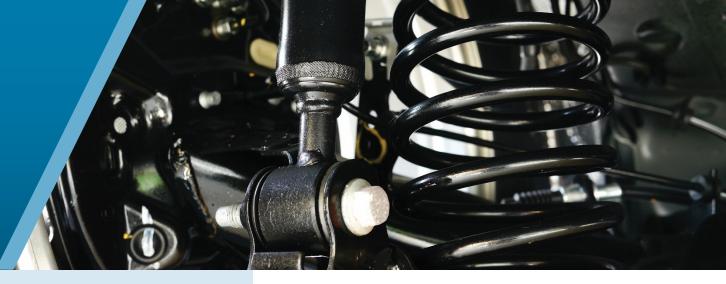
12 months / 77° F (25° C)





G Primeron® Auto

Layered protection for automotive and specialty markets



Products, benefits and characteristics

- PCF90202, PCF70406: polyester epoxy primers for aluminum wheels with great adhesion to liquid topcoats and excellent outgassing
- PCT99157: UV-durable polyester primer for aluminum wheels with great adhesion to liquid topcoats and excellent outgassing
- PCM90133: epoxy primer for steel/aluminum underbody applications with excellent performance over electrocoat or used as a monocoat
- PCF70404: polyester epoxy primer for steel/aluminum with excellent chip resistance when used over electrocoat
- PCT90111M: multi-use, polyester primer optimized for alkyd topcoats



Excellent layering over e-coat or under liquid topcoats



Good flow, appearance and mechanical properties



Options for chip resistance, UV durability and outgassing

Suggested Industries

Automotive parts and accessories

Suggested End Uses

Aluminum wheels

Automotive underbody parts

Automotive body

ISO 12944 Corrosivity Category

C4: PCM90133

C3: All other products





(PPG) Primeron® Auto

Layered protection for automotive and specialty markets



Properties*	PCF90202	PCF70406	PCT99157	PCM90133	PCF70404	PCT9011M
Color	Black	Gray	Black	Black	Gray	Black
Surface	Smooth	Smooth	Smooth	Smooth	Smooth	Smooth
Gloss at 60°	70 minimum	70 minimum	80 minimum	80 minimum	10-25	55-70
Specific Gravity	1.3 g/cm ³	1.3 g/cm ³	1.2 g/cm ³	1.5 g/cm ³	1.3 g/cm ³	1.6 g/cm ³
Impact Resistance	100 in./lbs. direct	100 in./lbs. direct	80 in./lbs. direct	160 in./lbs. direct	100 in./lbs. direct	80 in./lbs. direct
Adhesion	5B, pass	5B, pass	5B, pass	5B, pass	5B, pass	5B, pass
Conical Mandrel	1/8", pass	1/8", pass	1/8", pass	1/8", pass	1/8", pass	1/8", pass
Full Curing	20 minutes 350° F (177° C)	30 minutes 350° F (177° C)	30 minutes 350° F (177° C)	5 minutes 350° F (177° C)	30 minutes 350° F (177° C)	25 minutes 350° F (177° C)

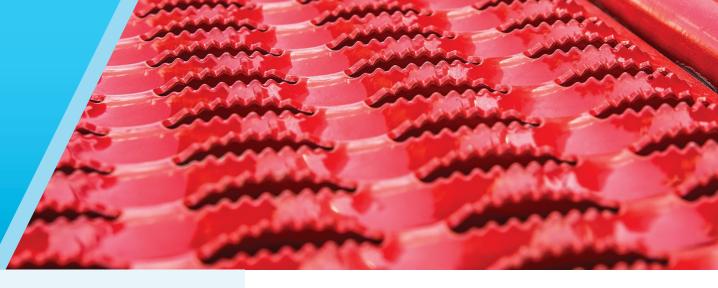


^{*} Properties on this slide use the same test methods as other *Primeron* products. For information about full curing at other temperatures, partial curing or conditions, please contact your PPG sales representative or email ic-na@ppg.com.



G Primeron® Edge

Designed for best-in-class sharp edge protection





Products, benefits and characteristics

- PCMT30105: A semi-conductive product that allows for easier topcoating and provides excellent sharp edge protection
- PCF70283: A preferred primer for heavy-duty equipment, offering good edge corrosion resistance and overall protection



Strong corrosion protection



Enhanced edge coverage for sharp, complex or laser-cut parts



Can help eliminate edge rounding equipment / extra machining

Suggested Industries

Heavy-duty equipment

Electrical and power generation

Suggested End Uses

Vents, steps and louvres

Electrical boxes and air conditioners

ISO 12944 Corrosivity Category

C4: PCMT30105

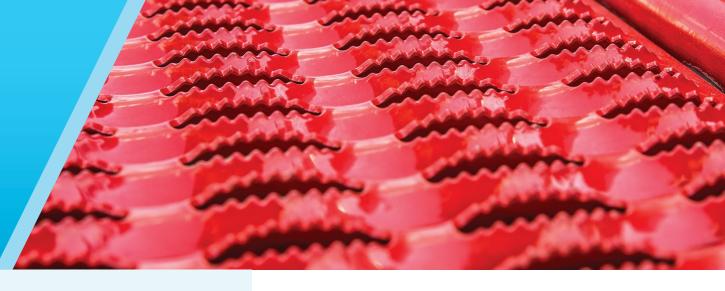
C3: PCF70283





(PPG) Primeron® Edge

Designed for best-in-class sharp edge protection



Properties	Test Method	Value*	
Color	-	Medium gray (PCF70283) Light tan (PCMT30105)	
Surface	-	Smooth	
Gloss at 60°	ISO 2813	Varies by product	
Specific Gravity	Calculated	1.6 g/cm ³	
Impact Resistance	ISO 6272 / ASTM D2794	80 in./lbs. direct	
Adhesion	ASTM D3359	5B, pass	
Conical Mandrel	ASTM D522	1/8", pass	

Partial Curing*		
5 - 7 minutes	350° F (177° C)	
4 - 5 minutes	375° F (191° C)	
3 - 4 minutes	400° F (204° C)	

Full Curing*	
16 - 20 minutes	350° F (177° C)
12 - 15 minutes	375° F (191° C)
8 - 12 minutes	400° F (204° C)

Storage Conditions

12 - 24 months / 77° F (25° C)





A versatile primer for multi-substrate use





Products, benefits and characteristics

- PCMT70101: Surface-tolerant epoxy primer that has good adhesion, great coverage and easy application with semi-conductivity that facilitates topcoat application
- PCMB70102: A user-friendly epoxy primer that can adapt to many different applications; especially outgas-friendly when used over galvanized steel and cast metals



Strong corrosion protection across a broad range of substrates



Good intercoat adhesion and compatibility with a wide range of topcoats



Excellent alternatives to zinc-rich primers

Suggested Industries

Electrical and power generation

General industrial

Suggested End Uses

Fencing, utility poles, lamp posts

Stadium seating

ISO 12944 Corrosivity Category

C5: PCMT70101

C4: PCMB70102





A versatile primer for multi-substrate <u>use</u>



Properties	Test Method	Value*
Color	-	Gray
Surface	-	Smooth
Gloss at 60°	ISO 2813	Varies by product
Specific Gravity	Calculated	1.6 g/cm ³
Impact Resistance	ISO 6272 / ASTM D2794	80 in./lbs. direct
Adhesion	ASTM D3359	5B, pass
Conical Mandrel	ASTM D522	1/8", pass

Partial Curing*	
6 - 9 minutes	275° F (135° C)
3 - 5 minutes	300° F (149° C)
2 - 3 minutes	350° F (177° C)

Full Curing*	
20 - 30 minutes	275° F (135° C)
10 - 20 minutes	300° F (149° C)
5 - 10 minutes	350° F (177° C)

Storage Conditions

12 months / 77° F (25° C)



^{*} Values indicate a range of performance across the entire family of products. For product-specific values, please contact your PPG sales representative or email ic-na@ppg.com.

Primeron primers key feature summary

	<i>Primeron</i> Legacy	<i>Primeron</i> Optimal	<i>Primeron</i> Auto*	<i>Primeron</i> Edge*	<i>Primeron</i> Versa*
Key Features	Zinc primer offering our best corrosion protection in this technology	Zinc-rich primer with excellent corrosion protection and a balance of other properties	Layer with liquid topcoats or over ecoat for automotivegrade performance	Very good sharp edge coverage, hides casting defects	Multi-substrate capable, good intercoat adhesion, excellent alternative to zinc
Chemistry	Ероху	Ероху	Epoxy, polyester, polyester epoxy	Epoxy, polyester epoxy	Ероху
Density	3.6 g/cm ³	2.0 g/cm ³	1.7 g/cm ³	1.6 g/cm ³	1.6 g/cm ³
Overall Corrosion Performance	***	***	***	***	***
Edge Protection	*	***	**	***	**
Mechanical Properties	**	**	***	**	**
Coverage	*	**	**	***	***



Thank you for your time today

Your Name Here

Your Title

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We protect and beautify the world®