



In-stock powder primers



Ready to go when you need them

PPG offers a variety of ENVIROCRON® powder primers in four different chemistries to meet your performance needs for both interior and exterior applications. The chart below shows our most common powder primers, highlights the characteristics of each technology and lists OEM approvals for each code. PPG has been granted ISO 12944-6 C5-M certification for our PCMT70101 semi-conductive ultra primer, meaning it is qualified for use in extreme marine, seacoast and offshore environments.

	Chemistry	Color	Product Code	Description	Gloss @ 60°	Corrosion Resistance		Low Temp. Bake (<300° F /149° C)	OEM Approvals
						Blasted and Pretreated Steel	Smooth Steel		
Interior	Epoxy	Gray	PCMT70101	Semi-Conductive Zinc Ultra Primer	0-10	✓	✓	✓	N/A
		Gray	PCM70140	XZR Zinc-Rich Primer	55-70	✓		✓	GM, Toyota
		Black	PCM90133 / PCM90133L	Black Low Cure	79-91 / 80	✓	✓	✓	Ford, GM, FCA
		Tan/Yellow	PCM30109T / PCM30110T	Buff Primer "Genie"	75-85 / 60-80	✓	✓	✓	Terex/Genie
		Gray	MLP70001	26307 Gray Primer	15-30	✓	✓		U.S. Department of Defense
		White	MLP80000	25522 White Primer	10-30	✓	✓		
		Red Oxide	B15960ER80K-E	Red Oxide	88	✓	✓		NSF 61
	Epoxy-Polyester Hybrid	Gray	PCF70283	Gray Primer "Caterpillar"	60-90	✓	✓		Caterpillar
		Gray	PCF70272	Gray Primer "Deere"	50-70	✓	✓		John Deere
Exterior	Polyester TGIC	Black	PCT90111M	Black	55-70	✓	✓		PACCAR
	Polyester TGIC Ultra-Durable	Black	PCT99157	OEM Ultra-Durable Black	80+*	✓	✓		Wheel OEMs

* Gloss @ 20°



Frequently asked questions

1. What topcoats can be used over a powder primer?

We always recommend that you check topcoat-to-primer adhesion and performance. Powder over powder is generally feasible. For latex systems, there is no primer that would work well. For liquid over powder, we have urethanes that will work well. Other chemistries are more problematic, such as air-dry alkyds. It is common to use solventborne and waterborne coatings with powder primers, especially in the aluminum wheel market.

Always verify adhesion of any topcoat over a powder primer. Checking the overall performance of a two-coat or three-coat system against all critical performance requirements before launching full-scale production is always recommended.

2. Can a primer be partially baked if the topcoat is also a baked coating?

It is typically unnecessary to fully cure a primer coating if baking conditions for the topcoat will provide sufficient heat energy to complete the cure requirements of the primer as well.

Usually a minimum bake of 50-75% is sufficient to set the primer, driving out volatile compounds so that it will not move underneath the topcoat when baked for a second time.

3. Can powder primers eliminate or help to minimize outgassing?

Yes, we have an OutGassing (OG) primer, PCS79102OG, which is a made-to-order (MTO) product that is not stocked like the ones listed in this brochure. PCT99157 is also quite good for outgassing resistance. We are also adding an outgas additive to PCMT70101.

4. Does PPG offer traditional red oxide color powder primers?

Yes, PPG offers B15960ER80K-E Red Oxide epoxy primer. However, there is no technical reason to believe that a red oxide color primer would offer better corrosion resistance performance than a black, gray or white color primer.

5. Which PPG primers have the highest levels of corrosion resistance?

Epoxy primers have the best reputation for corrosion resistance. There are so many variables involved that each customer needs to go through an evaluation process to determine what works for them. PCMT70101 on our list is the best, passing up to 4,000 hours of salt spray testing. However, the first four on our list are all epoxy primers and good choices.

6. What are the differences between steel (ferrous) and aluminum (non-ferrous) primers? What are the pros and cons of a primer that contains zinc?

Zinc promotes corrosion resistance over steel, but does nothing for aluminum. Never use zinc-optimized primer over aluminum. There are grades of aluminum that are negatively affected by a higher temperature bake, and they may need to be primed (and topcoated) with low-bake powders to preserve the metallurgical properties of the alloy. PCS79102, PCS79102OG and PCT99157 all are high-performance weatherable primers specifically formulated for aluminum.

Cons: zinc primers do nothing for aluminum and adhesion to smooth steel requires a solid pretreatment. Pros: zinc primers may give better performance and enhanced corrosion resistance than non-zinc primers.

7. What happens when a powder primer is overbaked?

Aesthetically, color and gloss may be affected and the surface may be hardened in such a way that topcoat adhesion is lost. Colors will generally yellow, gloss will go down and topcoat adhesion will get worse.

8. What is required to get good corrosion protection on sharp edges of parts?

Good corrosion protection on sharp edges requires a primer with restricted flow. High-flow primers are not recommended for covering sharp edges. Three good primers for this are PCM70140, PCM30109T and PCF70283.

9. Does a primed part have to be topcoated immediately after priming?

No. However, the primed part should be kept clean until it can be topcoated. If a primed part is partially baked, it could suffer mechanical and physical damage if handled before it is topcoated.

10. Can a primer be recoated with itself before topcoating?

PPG primers are designed to be self-recoatable, but we always recommend verification under the customer's actual baking conditions.

11. Which primers can be applied dry-on-dry (DOD)?

All of the "PCM" epoxy primers may be applied DOD, including PCMT70101, PCM70140, PCM90133/PCM90133L and PCM30109T/PCM30110T.

The color chips in this selector cannot be considered totally accurate color matches, and are not to be used as approved standards. Please contact a PPG representative for additional information.

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