



High Temperature Coatings for Industrial Use



As one of the world’s largest and most recognized coatings manufacturers, PPG has been trusted for over 140 years to protect and enhance some of the world’s most iconic products, landmarks and brands.

With a legacy of innovation, color leadership and technical expertise, PPG delivers high-performance solutions that add durability, beauty and lasting color across a wide range of industries.

Heat-resistant liquid and powder coatings provide functional, anti-corrosive and aesthetic protection for metals used in components exposed to thermal stress, such as stoves, fireplaces, mufflers and automotive parts. PPG high-temperature industrial coatings deliver durable protection for equipment and structures operating under extreme heat and mechanical strain, ensuring long-term integrity and reliable performance. These advanced formulations guard against corrosion, rust and oxidation while resisting environmental factors like UV exposure and moisture.

A global partner with a local presence

PPG serves more industries in more regions than any other coatings manufacturer, giving customers in over 70 different countries local access to our exceptional products and support. Our purpose is straightforward: to deliver high-performance coatings and services that address our customers’ toughest challenges, from performance to production, from aesthetics to regulatory compliance and everything in between.

Suggested End Uses



Benefits



High Temperature Portfolio Selector

High Temperature Portfolio Selector																			Substrates					Application		Segment		
Technology	Layer	Product name	Series	Chemistry	Features	Potential benefit to customer	Quality		Performance	Cure	Corrosion 1=low; 5=best	Dry film thickness (DFT µm)	Number of layers	Gloss	UV resistance 1=low; 5=best	Surface preparation	Pretreatment or Primer	Aluminum	Stainless steel	Mild steel	Cast iron	Maximum operating temperature	Conventional/ HVLP	E-Stat	Exhaust & OEM	Stove	BBQ & Outdoor	
Waterborne	Basecoat, Topcoat	MATRIX™	19-040	Sol-Gel	Excellent heat resistance and color stability	Provides reliable performance in severe thermal cycling and weathering conditions without losing color compared to uncoated parts	Best		Thermal	10 minutes at 300°C	1	20 - 30	1 or 2	Matte and Semigloss	5	Degrease and Sandblast	DTM	●	●			850°C	Yes	No	●	●	●	
	Basecoat	MATRIX LC	19-040	Sol-Gel	Excellent heat resistance and color stability with high corrosion resistance	Provides reliable performance in severe thermal cycling and weathering conditions without losing color compared to uncoated parts DTM corrosion protection on poor substrate	Best		Thermal Corrosion	10 minutes at 300°C	5	30 - 40	1 or 2	Matte and Semigloss	5	Degrease and Sandblast	DTM	●	●	●	●	650°C	Yes	No	●	●	●	
Solventborne	Topcoat	TECNOBLACK	19-150	Silicone	Good heat resistance and color stability	Provides reliable performance in severe thermal cycling	Good		Thermal	30 minutes at 180°C	N.A.	25 - 35*	1 or 2	Matte	3	Degrease and Sandblast	DTM/ Thermozinc	●		●		500°C	Yes	Yes	●			
	Topcoat	HRP	19-160	Silicone	Very good heat resistance and color stability with good corrosion resistance	Provides reliable performance in severe thermal cycling and provides DTM corrosion protection	Better		Thermal Corrosion	30 minutes at 180°C	2	40 - 60	1	Matte	3	Degrease and Sandblast	ZnPO4/ DTM	●	●	●		600°C	Yes	Yes	●			
	Topcoat	THERMOSINT	19-160	Silicone	Good heat resistance and color stability	Provides reliable performance in severe thermal cycling and weathering conditions	Better		Thermal	30 minutes at 180°C	2	25 - 35*	1 or 2	Matte	3	Degrease and Sandblast	DTM/ Thermozinc	●	●	●		600°C	Yes	Yes	●			
	Topcoat	THERMOBLACK	19-160	Silicone	Good heat resistance and color stability	Provides reliable performance in severe thermal cycling and weathering conditions	Good		Thermal	30 minutes at 180°C	N.A.	20 - 25*	1 or 2	Matte	3	Degrease and Sandblast	DTM/ Thermozinc	●	●	●	●	600°C	Yes	Yes	●	●	●	
	Topcoat	THERMOCERAMIC	19-170	Silicone	Very good heat resistance and color stability	Provides reliable performance in severe thermal cycling	Best		Thermal	30 minutes at 180°C	N.A.	15 - 30*	1 or 2	Matte	4	Degrease and Sandblast	DTM/ Thermozinc	●	●	●		650°C - 800°C	Yes	Yes	●			
	Primer	THERMOZINC	19-180	Silicone	Basecoat for improved corrosion resistance	Provides reliable performance in severe thermal cycling and provides DTM corrosion protection	N.A.		Corrosion	flash off 20°C - 15-20 minutes	3	20 - 25	1	N/A	N.A.	Degrease and Sandblast	N/A			●	●	600°C	Yes	Yes	●		●	
	Topcoat	SILICONICO	19-190	Silicone	Good heat resistance and color stability	Provides reliable performance in severe thermal cycling and weathering conditions	Good		Thermal	30 minutes at 180°C	N.A.	20 - 40*	1 or 2	Matte	3	Degrease and Sandblast	DTM/ Thermozinc			●		400°C - 500°C	Yes	Yes	●			
	Topcoat	SILICONICO AIRDRY	19-280	Silicone	Can dry at room temperature - Good heat resistance and color stability	Provides reliable performance in severe thermal cycling	Good		Thermal	Ambient	N.A.	20 - 30	1	Matte	3	Degrease /Sandblast /Gritblast	N/A	●	●	●	●	500°C	Yes	Yes		●		
	Topcoat	SILICONICO	19-290	Silicone	Good heat resistance and color stability	Provides reliable performance in severe thermal cycling and weathering conditions - various aesthetic finish	Good		Thermal	30 minutes at 180°C	N.A.	20 - 40*	1 or 2	Matte	3	Degrease /Sandblast /Gritblast	DTM/ Thermozinc			●	●	400°C - 500°C	Yes	Yes		●	●	
Powder	Topcoat	ENVIROCRON® PCH	P12	Silicone	Good heat resistance and stability	Provides reliable performance in severe thermal cycles	Good		Thermal	25 minutes at 210°C	2	80 - 100	1	Fine textured, deep matte	3	Steel: sanding/ sandblasting; Aluminum: degreasing	DTM	●		●		300°C - 400°C		Yes		●	●	

* When applied as a 2 coat system max DFT is 50 microns



PPG: We protect and beautify the world®



A trusted global coatings leader

Operations in more than 70 countries



Renowned color expertise

Trend-setting palettes for home, auto and industry paired with unrivaled color matching



Commitment to sustainability

Over 41% of annual sales from sustainably advantaged products and processes



Dedication to innovation

Over 30 R&D®
100 Awards received



Industrial Coatings from PPG

- World-class technical services and training.
- Help meeting specific, coatings-related environmental mandates.
- Assistance setting up new equipment and identifying areas where your processes may be streamlined.
- Troubleshooting production issues.
- Secure Launch Excellence® accelerated custom product formulation and color development process.

To learn more about PPG coatings, please visit us online at ppg.com/industrialcoatings, or contact one of the international sales offices listed below.

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