

PPG Coating Solutions for EV Battery Plants

Coating systems for steel and concrete structures



Protection and color from floor to roof

For designers and builders of Electric Vehicle (EV) facilities, PPG should be a familiar name. We are the premier single-source coatings supplier for every vehicle surface in the automotive industry, now supporting the rapid swing to EV technology with innovative coatings and specialty materials that help protect EV batteries and battery thermal management systems as well.

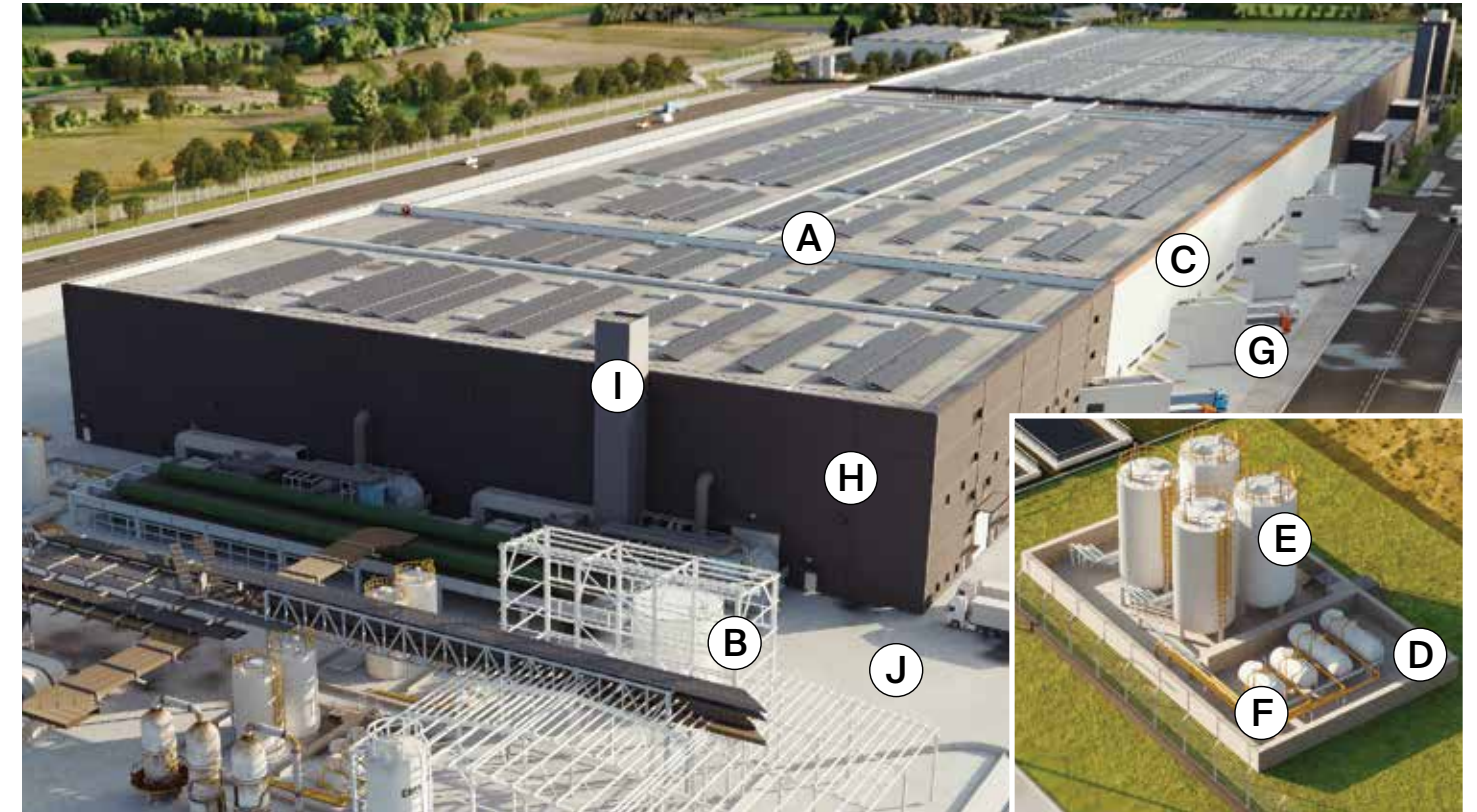
In the manufacturing plant, our broad range of coating solutions for construction is backed by the same commitment to performance throughout, from Electrostatic Dissipative (ESD) and chemical protective flooring solutions to structural fire protection and coatings for walls, halls, ceilings and roofs that meet your design and color needs.

With experience in supplying large-scale construction projects for industrial manufacturing facilities, PPG has the capabilities and support to help you keep your project on track.



Engineered to help meet your sustainability goals

- More than 36,000 individual PPG products are identified as sustainably advantaged
- Many of our coatings for EV battery facilities are Low VOC (<5-50 g/L) systems



	Exterior Application	1st Coating	2nd Coating	3rd Coating
A	Structural Steel	AMERLOCK® 600	PITTHANE® ULTRA	
B	Miscellaneous Steel	AMERLOCK® 600	PITTHANE® ULTRA	
		DURETHANE® DTM		
C	Concrete walls - Tilt Up	PITT-TECH® PLUS	PITT-TECH® PLUS	
	Concrete walls - CMU	SPEEDHIDE® 6-7 BLOCK FILLER	PITT-TECH® PLUS	PITT-TECH® PLUS
D	Secondary Containment*	912 LV	NOVAGUARD® 5041	NOVAGUARD® 5041
E	Tanks (External)	AMERLOCK® 600	PITTHANE® ULTRA	
	Tanks (Internal)*	AMERCOAT® 68 HS	PSX® 700	
F	Piping (Uninsulated) Up to 350°F (176°C)**	NOVAGUARD® 890		
		AMERLOCK® Series	HI-TEMP™ 808	HI-TEMP™ 808
G	Traffic and Marking Coatings	ZONELINE™ 11 Series	ZONELINE™ 11 Series	
H	Coil Coatings/Extrusion	DURANAR® Primer	DURANAR® Topcoat	
I	Stacks	PPG HI-TEMP™ 1027	PPG HI-TEMP™ 1000	
J	Expansion Joint Sealants	SL45/60		
K	Wastewater	RAVEN® 155/175	RAVEN® 405	RAVEN® 405

* For custom system options contact PPG Rep
 ** Please consult PPG Rep

⚠ **WARNING:** Certain products listed here may contain chemicals known to the State of California to cause cancer and/or reproductive harm. For more information go to www.P65Warnings.ca.gov



Protection and design options for ESD, fire, chemical storage and clean rooms, floors, walls and halls.

Cost-effective, time-saving ESD protection

PPG FLOORING™ 412 ESD Epoxy is applied in three coats, one coat fewer than comparable ESD flooring.

Fireproofing with application flexibility

PPG SANISHIELD™ 5000 flexible polyurea system is a high-build, flame-resistant coating that can be either shop or field applied as part of a comprehensive fireproofing solution. It is just one of many proven, UL Standard 263 fireproofing options that we can supply.

Wide range of chemical protection coatings

Options include epoxy, novolac epoxy, and three families of vinyl ester systems for extreme chemical environments.

And more

Draw on a comprehensive portfolio of flooring and architectural coatings for various wear, use, and decorative applications.

	Interior Application	1st Coating	2nd Coating	3rd Coating
A	Structural Steel & Ferrous Metal Ceilings	FAST DRY™ 4180/4190 (one or two coat options)		
B	Ceilings - N/Ferrous Metal - Galvanized Coated	PITT-TECH® EDF or SPEEDHIDE® WB Dry-Fall		
C	Fireproofing - Columns, Beams, Trusses	FAST DRY™ 4180/4190	Albi Clad TF+	
	Fireproofing - Cementitious Material	AMERLOCK® 2/400	STEELGUARD® 951	
D	Fireproofing - Roof Deck Assembly	PPG SANISHIELD™ 5000	PPG SANISHIELD™ 5000	
	Concrete walls - Tilt Up (as shown)	Albi DriClad		
E	Concrete walls - CMU	PITT-TECH® PLUS	PITT-TECH® PLUS	
	Equipment & Railings	SPEEDHIDE® 6-7 BLOCK FILLER	PITT-TECH® PLUS	PITT-TECH® PLUS
F	Railings - Optional	FAST DRY™ 4180/4190	PITT-TECH® PLUS EP DTM ACRYLIC SEMI-GLOSS	
G	Floors - ESD	912 LV	412 CS Grounding Plane	412 TC ESD
	Floors - NMP		ICO SUPER GUARD	
H	Floors - Light Duty	912 LV	610 SL	2550 WB URETHANE (Optional)
	Secondary Containment/Sumps		NOVAGUARD® 5041	NOVAGUARD® 5041
I	Line Striping	AMERLOCK® 2	PITTHANE® ULTRA 95-812 SERIES	
J	Expansion Joint Fillers	SL75/SL85/SL88/SL90		
	Thermal Insulation/Personnel Protection Up to 200°F (93°C) (not shown on illustration)	AMERLOCK® 400	HI-TEMP™ 808	
	Hot Surfaces - Steel - Temperatures Between 200 - 1000°F (93 - 537°C) (not shown on illustration)	AMERLOCK® Series GF	PPG HI-TEMP™ 1027 HD	PPG HI-TEMP™ 1000

Featured Products Systems Guide

These building blocks are only the beginning. Contact your PPG representative to learn more about how these systems can help meet your goals for compliance, timing, budget and performance.

Steel

AMERCOAT® 68HS

Three-component, zinc rich epoxy with outstanding corrosion resistance and fast dry times for rapid top coating.

AMERLOCK® 400

Two-component, high solids, self-priming universal epoxy with good adhesion on most existing coatings.

AMERLOCK® 600

Two-component, high-build, self-priming multipurpose polyamide cured epoxy coating that is compatible with a wide range of substrates.

DURANAR®

Liquid extrusion and coil coatings available in solid, metallic and mica formulations that add durability to architectural metals.

DURETHANE® DTM

Two-component, direct-to-metal urethane mastic that can be applied over tightly adhering rust and has excellent color and gloss retention.

FAST DRY™ 4180/4190

Fast-drying universal primer. FAST DRY 4180 primer and FAST DRY 4190 are one-component primers.

NOVAGUARD® 890

Two-component, formulated without solvents, amine-cured novolac phenolic epoxy coating resistant to a wide range of chemicals and solvents.

PITTHANE® ULTRA

Two-component, gloss acrylic aliphatic urethane with outstanding weather resistance and excellent color and gloss retention.

PITT-TECH® EDF

100% acrylic latex dry-fog that is self-priming and easy to apply, with rust inhibitive formulation and excellent color and gloss retention.

PITT-TECH® PLUS

One-component, 100% waterborne interior/exterior industrial enamel with excellent adhesion, vast color and finishes for challenging environments.

PSX® 700

High-gloss formulated without isocyanates two-component engineered siloxane coating with excellent color and gloss retention.

High Temp Coatings

AMERLOCK® Series GF

Two-component, high solids glass flake reinforced polyamine cured epoxy coating.

HI-TEMP™ 808

Water-based, 100% adherent, low permeability seamless acrylic composite insulation material that can be applied to metal at temperatures up to 300°F (149°C).

PPG HI-TEMP™ 1000

One-component, heat-resistant, universal silicone topcoat that can be applied at temperatures from 50 to 500°F (10 to 260°C).

PPG HI-TEMP™ 1027 HD

Two-component, ambient cured multi-polymeric heat resistant coating system designed to prevent corrosion under insulation (CUI).



Fireproofing

ALBI DRI CLAD

Mineral fiber fireproofing board for use in interior or semi-exposed locations that provides up to 4 hours of protection.

ALBI TF+

Water-based, thin-film intumescent paint (coating) designed for up to 4-hour fire protection on structural steel in accordance with UL263/ ASTM E-119.

STEELGUARD® 951

Two-component, 100% solids, epoxy intumescent passive fire protective coating for up to 3-hour protection of structural steelwork from cellulosic fires.

PPG SANISHIELD™ 5000

Formulated without solvents, two-component, elastomeric, aliphatic polyurea topcoat; flame spread ASTM E84 Class A.

Traffic Coatings

AMERLOCK® 2

Two-component, high solids self-priming universal epoxy coating with low-temperature curing down to 32°F (0°C).

PITTHANE® ULTRA

Two-component, high gloss acrylic aliphatic urethane topcoat with unlimited recoatability, outstanding weather resistance, and excellent color and gloss retention.

ZONELINE™ 11 Series

Quick drying 100% acrylic yellow traffic/zone marking paint for use on fully cured asphalt, concrete and brick masonry.



PPG FLOORING™

412 CS ESD or Conductive

Two-component, thick water-based epoxy electrostatic grounding plane. Part of a three-step system for ESD protection.

412 TC

Two-component, thick water-based epoxy electrostatic grounding topcoat. Part of a three-step system for ESD protection.

610 SL

Two-component, 100% solids, high-gloss self-leveling epoxy for concrete surfaces in corrosive environments.

912 LV

Two-component, highly penetrating epoxy primer/sealer for concrete surfaces.

2550 WB Urethane

Wear-resistant waterborne urethane for excellent abrasion and impact resistance.

ICO SUPER GUARD

100% solids, formulated without solvents three-component epoxy novolac with chemical resistance to a wide combination of acids, caustics, and solvents, including methylene chloride.

Joint Filler & Concrete Repair

SL45/60

Self-leveling polyurea joint sealants for concrete, available in a range of cure time and hardness characteristics.

SL75/85/88/90

Self-leveling polyurea joint fillers for concrete, designed to be a structural component, available in a range of performance characteristics.



Field Finish

DURETHANE® DTM

Two-component, DTM urethane mastic that can be applied over tightly adhering rust and has excellent color and gloss retention.

PITT-TECH® EDF

100% acrylic latex dry-fog that is self-priming and easy to apply, with rust inhibitive formulation and excellent color and gloss retention.

PITT-TECH® PLUS EP DTM

One-component, 100% waterborne interior/exterior industrial enamel with excellent adhesion and improved color and gloss retention.

Secondary Containment

912 LV

Two-component, highly penetrating epoxy primer/sealer for concrete surfaces.

NOVAGUARD® 5041

Two-component, 100% solids, chemical resistant novolac epoxy coating that resists concentrated acids, caustics and some solvents.

Wastewater

PPG RAVEN® 155/175

Two-component, low-odor, ultra-high-solids, penetrating epoxy primer/sealer.

PPG RAVEN® 405 EPOXY

Ultra-high-build epoxy lining system with high physical strength and chemical resistance.

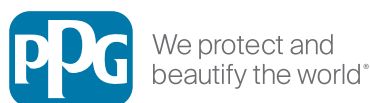


We are PPG

- We protect and beautify the world by developing and delivering paints, coatings and materials that our customers have trusted for more than 130 years.
- We operate and innovate in more than 70 countries.
- We are widely recognized as a leading name in protective and marine coatings.
- Continuous development ensures that we provide optimal solutions for asset owners, contractors, fabricators and applicators across the globe.

Speak with your PPG rep* or visit www.ppgpmc.com to learn more.

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