

PPG is a global leader in adhesives and sealants, combining leading edge science and innovation dedicated to meeting the needs of our customers, in their production environment, every day.

Our latest proven adhesive and sealant technologies are ideally suited to a variety of EV battery pack needs, including sealing of pack shells and components, fixing of cells and modules into packs, structural reinforcement, and impact resistance.

PPG CORABOND® 1K Structural Adhesives

Proven and new products in development for vehicle design.

PPG Value Leveraging Core Competencies (A = Adhesive S = Sealant)

Product/Formulation

- Superior shear strength (A)
- Excellent wash off resistance (A)
- Outstanding corrosion and hygrothermic resistance (A)
- Excellent impact peel strength (A)
- 1K and 2K (S)
- 2K PU foaming (S)
- Coating compatibility (S)
- Pack serviceability (S)

Application

- Automated extrusion dispense options (A)
- Automated hot application for 1K (S)
- 2K Automated dispense with dynamic mixing (S)
- Minimized line assembly time (S)

Trusted global supplier to OEMs & Tiers

- 1	n	υ	eı	/ei	0	рı	m	eı	n	

	CORABOND STRUCTURAL	CORABOND SEMI-STRUCTURAL	CORABOND BROAD BAKE
Attributes	1K epoxy, colors availableWarm and cold pumpableWash-off resistanceCorrosion resistance	1K epoxy, colors availableWarm and cold pumpableWash-off resistanceCorrosion resistance	1K epoxy, colors available Broad temperature cure (140oC -190oC10 min) that also meets the current storage stability (> 3 months)
Performance	 Impact: ≥ 20 N/mm - 30N/mm Peel Strength: ≥ 8 N/mm LSS: ≥ 25 Mpa 3-6 month storage stability @ ambient / 40 C/ 0 C 	 Impact: ≥ 10 N/mm Peel Strength: ≥ 4 N/mm LSS: ≥ 20 Mpa 3-6 month storage stability @ ambient / 40 C/ 0 C 	 Impact: ≥ 25 N/mm Peel Strength: ≥ 8 N/mm LSS: ≥ 25 Mpa 3-6 month storage stability @ ambient / 40 C/ 0 C
Recommended For	Body shop application (Frame) E-coat oven cure (10Min @ 150°C)	Body shop application (Hem-flange) E-coat oven cure (10Min @ 150°C)	Thick metal section, especially in the rocker to protect battery from crash events E-coat oven cure



Adhesives & Sealants

PPG TOTALSEAL® 2K Structural Adhesives

Proven products for vehicle design.

	TOTALSEAL 6015/2	TOTALSEAL 6080	DUAL-MIX 39747
Attributes	 2K PU Structural High elongation Solvent free Good sag resistance	 2K PU Flexible Bonding High elongation Solvent free Good Sag Resistance	2K epoxy Exceptional impact and peel performance Excellent corrosion resistance Compatible with MIG or STRSW welding
Performance	 Open Time: 3 - 6Min LSS: 18 MPa Tensile Strength: 15MPa 	Open Time: 3 MinLSS: 3 MPaTensile Strength: 3.5 MPa	Working Time: 90 Min Set Time: 4 Hr Cure Time: 24 Hr Heat Cure Time: 1 Hr
Recommended For	Especially designed for adhesion to bro polyesters, ABS, PC, POM, etc.)	For panel bonding of steel, aluminum, SMC & fiberglass	

PPG CORASEAL® 1K Sealants

Proven and new products in development for battery market.

	CORASEAL RT400	CORASEAL 2940	NEW CORASEAL EV 2025	
Attributes	 1K, PVC, black Rubber-based technology Sealer for body shop Excellent wash resistance Non-tacky surface 	 1K, PVC, black Excellent wash resistance Non expanding Accepts welding Corrosion resistant 	1K hot-melt, black Fire-extinguishing Good serviceability properties Good compressibility, tightness Slated for launch in 2021	
Application	 Apply to substrate and bake through production schedule Pallet pump, 75°C on gun, 160 bars 300 mL cartridges, 50 L pails, 200 L drums 	 Apply to substrate and bake minimum 20 minutes, 340° F 42:1 ratio extrusion pump through tapered nozzle dispense gun 	Apply to many substrates used in BP (aluminum, steel, composites) No curing step Warm applied (~60-70°C) 220 bars (exit pump)	
Recommended For	Seam sealing component panels Component shop applied			



 $\label{thm:pgautocoatings.com} \textbf{Visit ppgautocoatings.com} \ \textbf{and} \ \textbf{ppg.com} \ \textbf{for more information or email PPGMobility@ppg.com}$

USA PPG Auto OEM Coatings | One PPG Place, Pittsburgh, PA 15272 Effy Carpenter | ecarpenter@ppg.com | +216.701.02888

EUROPE PPG Industries Europe Sárl | Route de Gilly 32, Rolle, Vaud 1180 Switzerland Cedric Zipperlin | zipperlin@ppg.com | +004179.606.2596

ASIA PACIFIC PPG Coatings Co., Ltd. | No. 192 Haunghia Road, TEDA, Tianjin 300457 China Peter Jiang (蒋立群) | jiang@ppg.com | +1.862.186.5735



