



Advanced Materials and Coatings for Electric Vehicle Battery Packs



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 products for both vehicle and battery pack design

Product/Formulation

- ✓ Superior shear strength
- ✓ Excellent wash off resistance
- ✓ Outstanding corrosion and hydrothermal resistance
- ✓ Excellent impact peel strength
- ✓ 1K and 2K
- ✓ 2K PU foaming
- ✓ Coating compatibility
- ✓ Pack serviceability

Application

- ✓ Automated extrusion dispense options
- ✓ Automated hot application for 1K
- ✓ 2K automated dispense with static mixing
- ✓ Minimized line assembly time

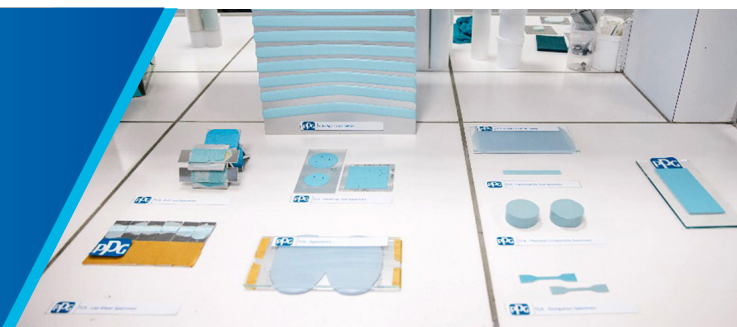
Trusted global supplier to OEMs & Tiers

PPG Corabond Polyurethane Adhesives

CORABOND® Polyurethane Adhesives	Product Platform Properties	CORABOND® Structural Adhesives	CORABOND® Flexible Adhesives
- Excellent mechanical properties with tunable bonding strength - Good adhesion to multiple substrates - Low storage modulus for vibration absorption - Proven application equipment compatibility - Maintains performance under harsh environmental conditions - Flame retardant properties	Technology	2K PU	2K PU
	Mix ratio	1:1	1:1 / 10:1
	Open time (min)	5 - 35	4 - 12
	Lap Shear Strength 23 °C (MPa)	≤ 18	≤ 4
	Tensile Strength (MPa)	≤ 18	≤ 4
	Application temperature (°C)	20 – 35 °C	20 – 35 °C
	Shock & vibrations	★ ★ ★	★ ★ ★
	Recommended applications	Cell-to-Module Module-to-Case	Cell-to-Module Module-to-Case

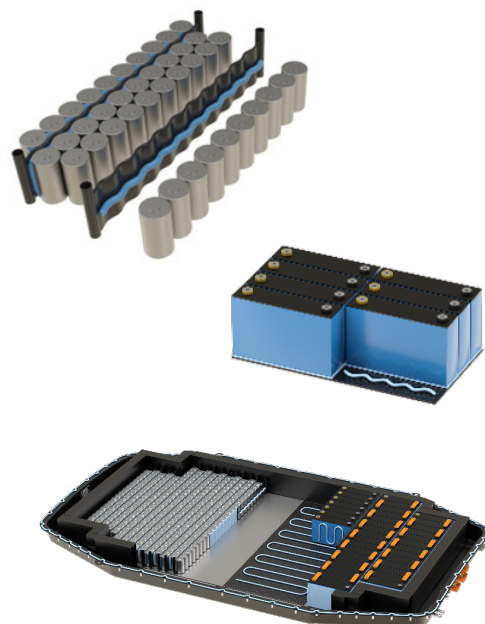


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PPG Corabond Epoxy Adhesives

CORABOND® Epoxy Structural Adhesives	CORABOND® Crash Resistant Adhesives
- Excellent impact strength - High durability - Excellent shear strength - Outstanding corrosion and hygrothermal resistance  - CORABOND® Ambient Cure Crash Resistant Adhesives	2K Epoxy
	2:1
	45
	≤ 25
	≤ 30
	20 – 35 °C
	★ ★ ★
	Module-to-Case Case-to-Body



PPG Coraseal EV Sealants

CORASEAL® EV Sealants	CORASEAL® EV 2025 Sealants
- Compatible with multiple substrates - Good compressibility - Good serviceability - Fire retardant/resistant - Non-expanding, non-reactive	General: 1K hot-melt low strength sealer - Non-expanding, non-reactive Compatible with multiple substrates (E-coat, paints, SMC, PET) Properties: - Good compressibility, tightness - Good serviceability - Fire retardant/resistant - Compatible with multiple substrates (aluminum, steel, composites) Application: - Application temperature, extrusion, 80 °C - 90 °C (if needed possible up to 140 °C) - No curing step

