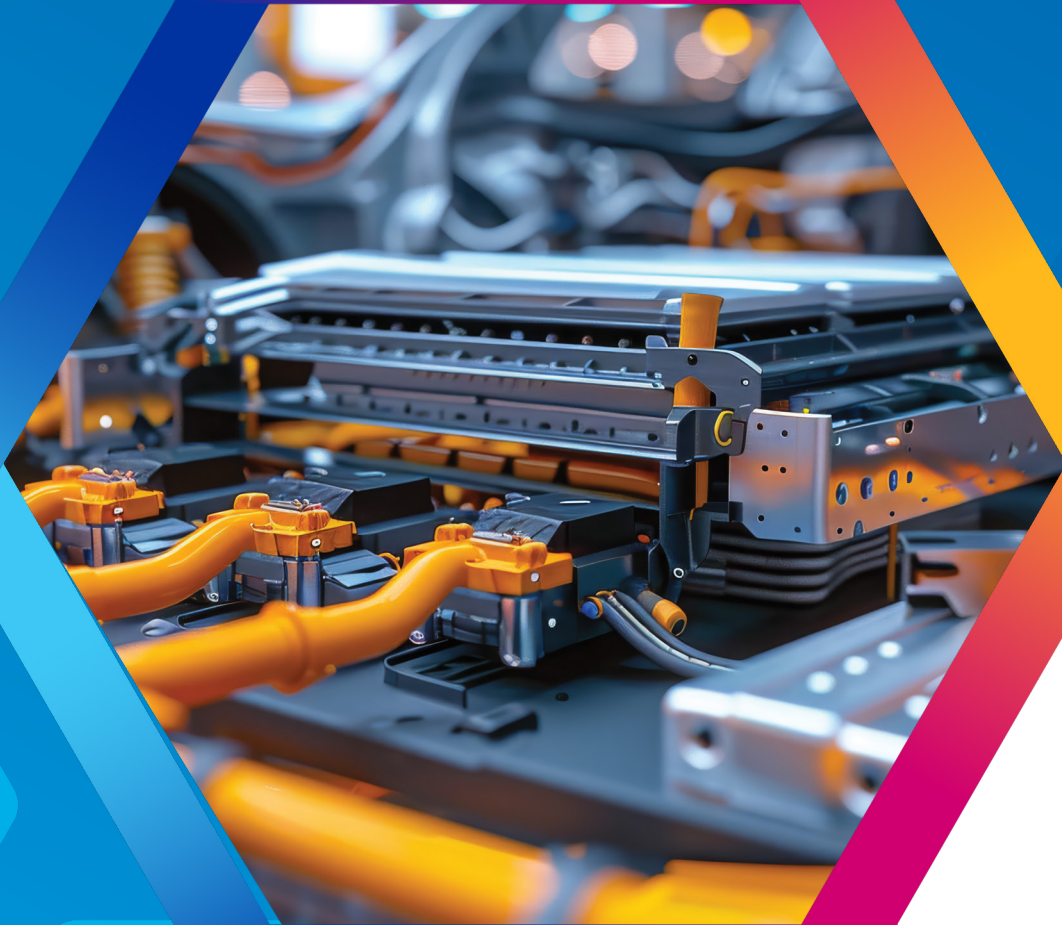


CORATHERM® | CORABOND® | CORASEAL®

Thermal Management and Assembly Solutions

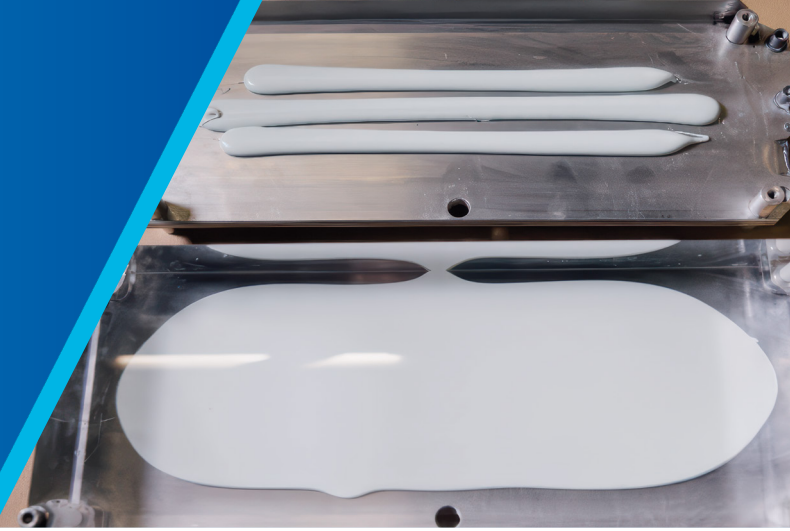
Our Advanced Material Solutions
for Electric Vehicle Battery Packs



We protect and
beautify the world®

CORATHERM®

Thermal Interface Material



EV Battery packs generate significant heat during operation, which can negatively impact their performance, lifetime, and safety.

PPG's **CORATHERM® Thermally Conductive Gap Fillers and Thermally Conductive Adhesives** help mitigate these issues by facilitating the transfer of heat away from the cells, allowing for effective dissipation and maintaining optimal operating temperature.

Our solutions offer tailorable attributes to meet a wide variety of needs, including thermal conductivity, abrasion mitigation, weight (low density), viscosity, vibration damping, adhesion, dielectric protection and fire resistance.

Property / Attribute	CORATHERM® TGF-1000 Series	CORATHERM® TGF-2000 Series	CORATHERM® TCA-4000 Series
Technology	1K Hot Melt	2K Epoxy	2K Polyurethane
Thermal conductivity (W/mK) ASTM D5470	2	1.9 - 2.5	1.2 – 2.5
Density (g/cm³) ASTM D792	1.9 - 2.0	2.0 - 2.5	< 2.3
Mix ratio	NA	1:1	1:1
Open time	Up to 1 week	≤ 1 hour	≤ 1 hour
Application temperature (°C)	60 to 70 °C	20 - 35 °C	20 - 35 °C
Serviceability	★ ★ ★	★ ★ ★	
Structural bonding	NA	NA	★ ★ ★
Shock & vibration	★ ★ ★	★ ★ ★	★ ★ ★

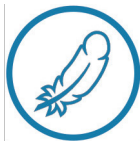
CORATHERM® Thermally Conductive Material: a customizable solution to meet a wide variety of needs

Backside Temperature (C°)



Silicone-free*

*The product offering is without silicone (not intentionally added)



Low density options for light-weighting



Multiple substrate & total system solution



Customizable solutions



Excellent processability



Flame retardancy



Environmental performance

CORABOND® Adhesives CORASEAL® Sealants



PPG is a global supplier of 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. **Our solutions are customizable to meet a wide variety of needs.**

CORABOND® Structural Adhesives

Property / Attribute	CORABOND® Structural and Flexible Adhesives	CORABOND® Crash Resistant Adhesives
Technology	2K PU	2K Epoxy
Mix ratio	1:1	2:1
Lap shear strength (MPa)	≤ 18 MPa	≥ 25 MPa
Tensile strength (MPa)	≤ 18 MPa	≥ 30 MPa
Application temperature (°C)	20 - 35 °C	20 - 35 °C

CORABOND® PU Structural Adhesives

- ✓ Excellent mechanical properties with tunable bonding strength
- ✓ Good adhesion to different substrates
- ✓ Low storage modulus for vibration absorption
- ✓ Proven application equipment compatibility
- ✓ Maintains performance under harsh environmental conditions

CORASEAL® EV Sealants

PPG's **CORASEAL® EV Sealants** are designed to protect the battery from dust and moisture intrusion and other harsh environmental conditions. Our products offer:

- ✓ Good compressibility, tightness
- ✓ Good serviceability
- ✓ Self-extinguishing
- ✓ Non-expanding, non-reactive
- ✓ Compatible with difference substrates

CORABOND® EP Structural Adhesives

- ✓ Superb shear strength
- ✓ Outstanding corrosion and hygrothermic resistance
- ✓ High durability
- ✓ Excellent impact strength



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