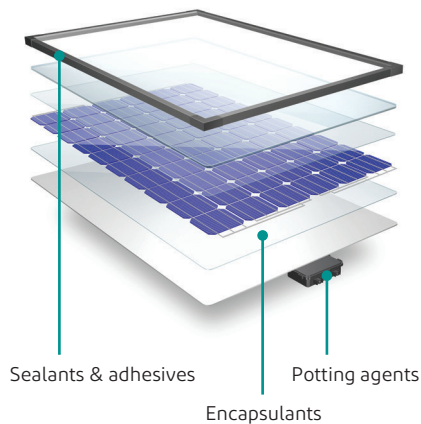


Welcome to the Fortasun™ selection guide

DuPont™ Fortasun™ (formerly Dow Corning Silicones) provides silicone-based solutions for commercial and residential solar panels. Available as sealants, adhesives, potting agents, and encapsulants, Fortasun™ products increase the performance of solar modules around the world by reducing costs and increasing durability of photovoltaic modules and concentrators.

From panel frames to junction boxes, Fortasun™ products remain UV stable for decades, providing a strong adhesive bond that helps reduce failures due to moisture. They are also electrically insulating, providing protection against corrosion and delamination. You'll experience long-term durability, a lower cost of ownership and more power over a longer period of time.



All products listed in this selection guide are DuPont™ Fortasun™ brand products.

Fortasun™ product	Description/Advantages	Cure System	Mix Ratio/By Weight	Color	Viscosity cPs Extrusion Rate g/min	Specific Gravity Mixed Parts	Working Time @ 25 °C	Cure Time/ Temperature	Thermal Conductivity	Shelf Life	UL Ratings
PV Cell Adhesive PV-5802 Electrically Conductive Adhesive	• Electrical and mechanical bonding for back-contact module • Stencil printing for automatic module assembling process • Curing profile matches typical lamination • Low CTM (cell-to-module) power loss • Superior stability and durability • Low material consumption	Addition cure	1-part	Gray	95,000 cPs	3.95 g/cm ³	72 hours	10 minutes @ 150 °C	N/A	12 months	N/A
PV Cell Encapsulant PV-6212 Cell Encapsulant	• High optical transmission • UV transparent to 250 nm • Adhesion to glass, PET-based PV back-sheet and solar cells • Inherently UV stable • Excellent humidity resistance • Superior electrical insulation • Fast heat cure (100 °C) • PID resistant	Addition cure	1:1; 2-part	Transparent/translucent	Part A 53,200 cPs Part B 51,600 cPs	0.97	1 hour	T90 @ 110 °C 22.5 seconds	0.171 W/(m K)	12 months	N/A
PV Junction Box Potting Agent PV-7010 Potting Agent	• Proven solution in PV industry • Fast room temperature or heat cure • Thick section cure • No solvents or cure byproducts • Translucent material • Minimal shrinkage	Addition cure	1:1; 2-part	Translucent blue and green	Part A 425 cPs Part B 400 cPs	0.98	5-10 minutes	90-100 minutes @ 25 °C 10-15 minutes @ 50 °C 2-5 minutes @ 75 °C	0.20 W/(m K)	12 months	UL 94 V1; HAI/HWI/CTI=0; RTI 105 °C; (f2)-UV/H ₂ O exposure
PV Junction Box Potting Agent PV-7030R Potting Agent	• Fast room temperature or heat cure • Thick section cure • No solvents or cure byproducts • Minimal shrinkage	Addition cure	1:1; 2-part	Black	Part A 2,835 cPs Part B 2,733 cPs	1.2	8-10 minutes	3.25 hours @ 25 °C 18.5 minutes @ 50 °C 4.3 minutes @ 75 °C	0.28 W/(m K)	12 months	UL 94 V1; HAI/HWI/CTI=0; HWI=2; CTI/inclined plane tracking 600 V and greater; RTI 105 °C; (f2)-UV/H ₂ O exposure
PV Junction Box Potting Agent PV-7321 Potting Agent	• Proven solution in PV industry • Good thermal conductivity • Excellent dielectric properties	Condensation cure	10:1; 2-part	White	Mixed: 8,000 cPs	1.25	22 minutes	72 hours @ 25 °C and 50% RH	0.31 W/(m K)	12 months	UL 94 HB; HAI=0; HWI=3; CTI=0; RTI 105 °C
PV Junction Box Potting Agent PV-7326 Potting Agent	• High thermal conductivity • Flame resistance V0 level	Condensation cure	6:1	White and black	Mixed: 3,300 cPs	1.48	7.6 minutes	72 hours @ 25 °C and 50% RH	0.54 W/(m K)	12 months	IEC 60695-11-10, -20; CTI=0; RTI 105 °C
PV Junction Box Adhesive Solar PV InstantSeal	• Adhesion to typical PV substrates • Safe to handle – nonhazardous composition and byproducts • Clear product improves module aesthetics	Moisture cure	1-part	Clear	200,000 cPs at application temperature	1.06	15 minutes with a green strength of 15 psi	48 hours @ 25 °C – 2 mm	N/A	12 months	UL 94 HB; RTI 105 °C
PV Junction Box Adhesive PV-8101F Sealant*	• Adhesion to typical PV substrates • Fast tack-free time • Flexible rubber • Fast, deep section cure	Moisture cure	1-part	White and black	210 g/minute	1.41	4 minutes and 50% RH	24 hours @ 25 °C and 50% RH – 2 mm	N/A	12 months	UL 94 HB; HWI=2; HAI=0; CTI=0; RTI 105 °C
PV Junction Box Adhesive PV-8007 Neutral Sealant	• High-performance silicone adhesive/sealant with fast green strength • High elasticity after cure allows flexibility in harsh conditions • Adhesion to typical PV substrates • Protects against mechanical shock and thermal cycling stress	Moisture cure	1-part	White and black	170 g/minute	1.56	10 minutes and 50% RH	24 hours @ 25 °C and 50% RH – 2 mm	N/A	12 months	UL 94 V1 (6 mm) HB (3 mm); UL RTI 105 °C; UL HAI=1; HWI=1; CTI=0
PV Junction Box Adhesive PV-8107 Neutral Sealant	• High-performance silicone adhesive/sealant with fast green strength • High elasticity after cure allows flexibility in harsh conditions • Adhesion to typical PV substrates • Protects against mechanical shock and thermal cycling stress	Moisture cure	1-part	White	175 g/minute	1.4	20 minutes	24 hours @ 25 °C and 50% RH – 2 mm	N/A	12 months	UL 94 HB (15 mm); UL 94 V1 (6 mm); RTI=105 °C
PV Junction Box Adhesive PV-8080 Neutral Sealant	• Adhesion to typical PV substrates • Protects against mechanical shock and thermal cycling stress • High-performance with high elasticity after cure	Moisture cure	1-part	White and bright white	197 g/minute	1.51	10-15 minutes and 50% RH	24 hours @ 25 °C and 50% RH – 2.5 mm	N/A	12 months	UL 94 HB; HWI=2; HAI=0; CTI=0; RTI 105 °C
PV Junction Box Adhesive PV-804 Neutral Sealant	• Proven solution in PV industry • Adhesion to typical PV substrates • Protects against mechanical shock and thermal cycling stress at components	Moisture cure	1-part	White and black	190 g/minute	1.4	30 minutes	24 hours @ 25 °C and 50% RH – 2 mm	N/A	12 months	UL 94 V1 (5 mm) HB (3 mm); HWI=2; HAI=0; CTI=1; RTI 105 °C; (f2)-UV/H ₂ O exposure
PV Structural Bonding Sealants PV-8303 Ultra Fast Cure Sealant	• Adhesion to typical PV substrates • Ultra-fast cure for fully automated processes • Two-part product providing customized cure rate using Fortasun™ PV-8300 Base	Condensation cure	2-part base; catalyst 7:1	Black	190 g/minute	1.31	5-10 minutes	2.5 hours @ 25 °C	N/A	Catalyst black: 12 months Base: 12 months	UL 94 HB; HWI=2; HAI=3; CTI=0; RTI 105 °C
PV Structural Bonding Sealants PV-8301 Fast Cure Sealant	• Adhesion to typical PV substrates • Fast cure allowing increased production rates • Two-part product providing customized cure rate using Fortasun™ PV-8300 Base	Condensation cure	2-part base; catalyst 7:1	Black	190 g/minute	1.31	20-25 minutes	8 hours @ 25 °C	N/A	Catalyst black: 14 months Base: 14 months	UL 94 HB; HWI=3; HAI=0; CTI=0; RTI 105 °C
PV Structural Bonding Sealants PV-8030 Adhesive	• Adhesion to typical PV substrates • Protects against mechanical shock and thermal cycling stress at components	Moisture cure	1-part	White and black	110 g/minute	1.34	20-30 minutes	24 hours @ 25 °C and 50% RH – 3 mm	N/A	18 months	UL 94 HB; HWI=2; HAI=2; CTI=0; RTI 105 °C

Please consult the data sheets for complete information on testing methods and conditions.
RH = Relative humidity
*Available in China only