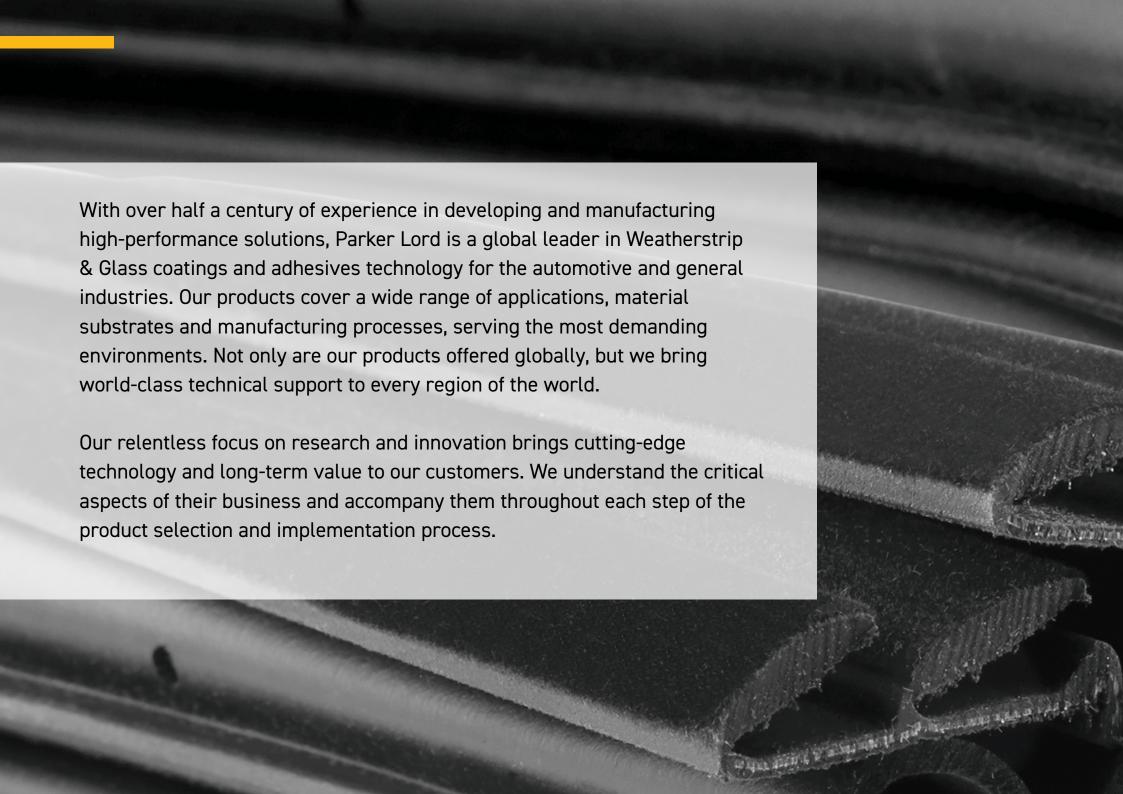


Selector Guide

EMEA (Europe, Middle East, Africa)





SIPIOL® WEATHERSTRIP COATINGS

Sipiol® weatherstrip coatings significantly improve the performance and lifetime of automotive sealings on passenger and commercial vehicles. We collaborate with our customers and partners to develop coatings that meet the demanding specifications of the automotive industry.

Our coating solutions are designed to offer excellent noise reduction performance and increased passenger comfort. They are particularly suited for applications on electric vehicles. These coatings provide abrasion resistance and are formulated to withstand the harshest environments including extreme temperatures, UV rays, water, ice and cleaning chemicals. Our products are water-based and do not contain any toxic classified substances, meeting the industry's increased demand for sustainable solutions.

Sipiol weatherstrip coatings are approved by the leading global car manufacturers. See full product listing for primers,

cross-linkers, thickeners and setting aides.

Features & Benefits

- Excellent noise reduction
- High abrasion resistance
- High resistance to UV exposure
- One-component and two-component systems
- Water-based systems
- Spray and brush application
- Coatings can be over-painted

Primers

- Solvent- and water-based systems
- Suitable for a variety of elastomers
- Different activation temperatures
- Spray and brush application



APPLICATION	SMOOTH COATINGS	PARTICULATED COATINGS
PRIMARY DOOR SEALING, TRUNK-BONNET, HOOD SEALING	WL 1120-21 WL 1120-23 WL 2010-23	
SECONDARY DOOR SEALING, FRAMELESS DOORS, CONVERTIBLES	WL 2010-24	WL 2015-22P WL 1025-21 WL 1026-21
GLASS RUN CHANNELS		WL 2015-22P WL 1025-21 WL 1026-21
SUN ROOFS	WL 2010-24	WL 1026-21 WL 1025-21



FLOCKSIL® & PARFLOCK® FLOCK ADHESIVES

Flocksil® and Parflock® flock adhesives are designed to adhere polyester or nylon flock fibers to a variety of elastomers (including EPDM, NR, CR, SBR) and thermoplastic elastomers (TPE). The flocked elastomer forms an insulating weather seal around windows, protecting passenger cars and commercial vehicles from dust and dirt entering the cabin. Our flock adhesives provide excellent durability, abrasion resistance and adhesion. They protect the rubber sealing from wear, facilitate glass sliding and contribute to noise reduction and increased passenger comfort.

Features & Benefits

- Different solvent compositions and curing times
- Excellent adhesion to a variety of substrates and types of flock
- Process compatibility can be applied online and offline

Catalysts

- Customizable to specific customer processes
- High efficiency
- DTBL-free versions available

	SUBSTRATES							
COLOR	EPDM, NR, CR, SBR	TPE						
BROWN	1501 SF							
BLACK	1503 EA P 11 1506 G 1	1503 EA P 11 B 1506 G 1						

1K

See Selector Guide insert for technical data.

CHEMLOK® GLASS ENCAPSULATION ADHESIVES

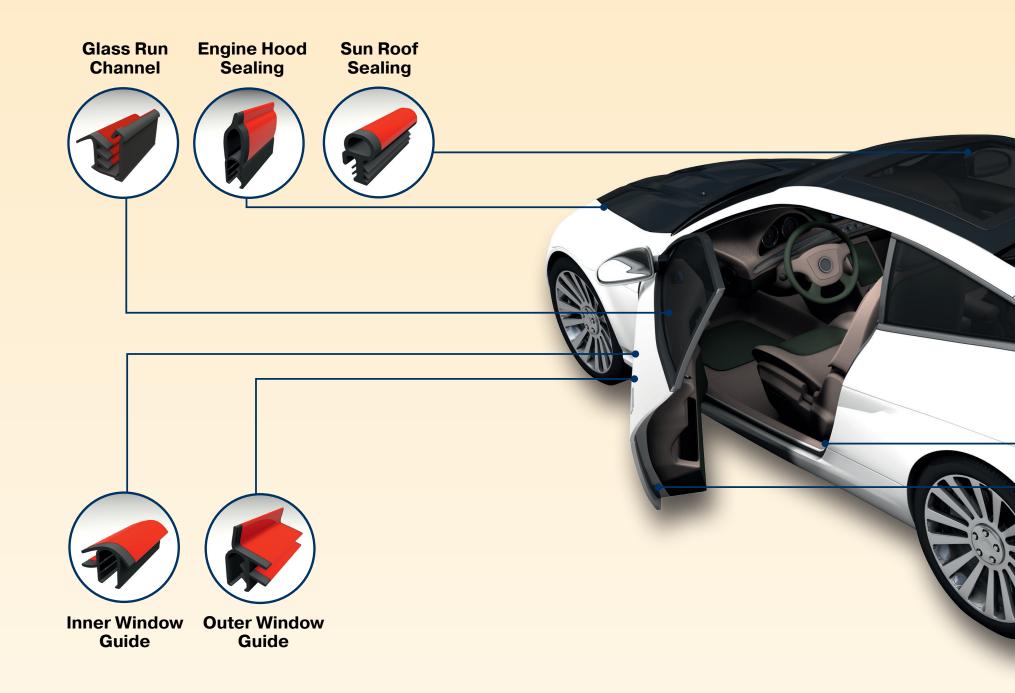
Chemlok® glass encapsulation adhesives are designed for the production of automotive windshields, side windows (modular windows) and rear windows. They form a strong bond between the polymer and the window glass during the encapsulation process. We recommend different adhesive systems to bond the glass, depending on the polymer used.

Features & Benefits • Product solutions for all common polymers (PVC, RIM PU, TPE, EPDM) • Long history of proven product performance

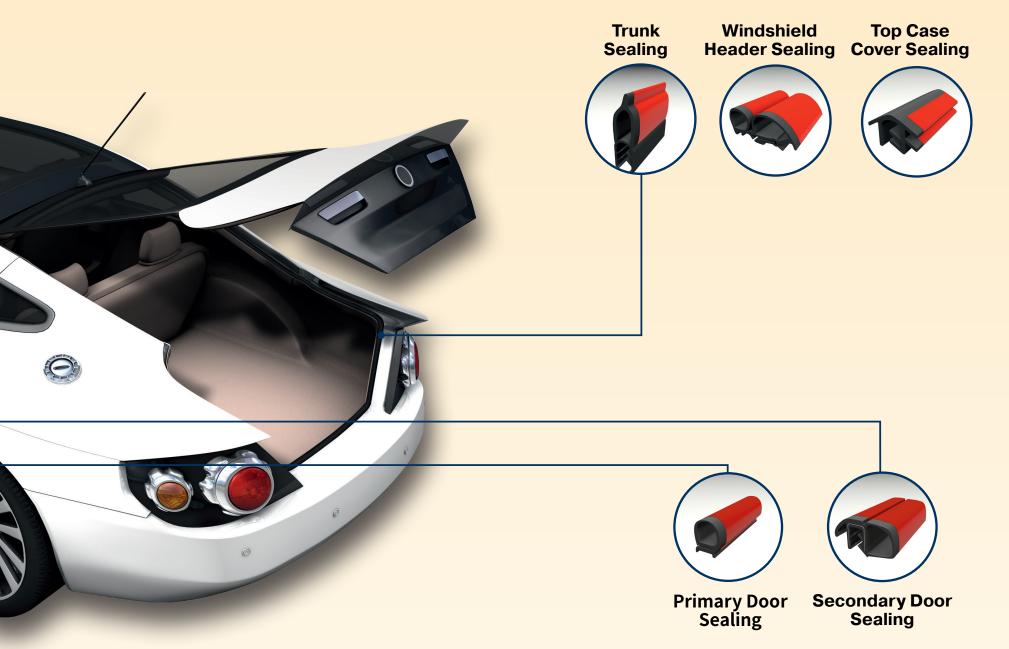


INJECTED POLYMER	GLASS, METAL, PLASTIC, STEEL, ALUMINUM, FABRIC
PVC	489/456
TPE	144 487 A/B
RIM-PU	144
EPDM	144 Chemosil S11 Chemosil NL 411

AUTOMOTIVE WEATHERSTRIP APPLICATIONS



For Convertibles:



SIPIOL® WEATHERSTRIP COATINGS

PRODUCT	MAIN APPLICATION	MAIN SUBSTRATE	1K/2K	BASE	PARTICLE SIZE, µm	COLOR	SOLIDS, %	VISCOSITY mPa·s / cps except as noted	NOISE REDUCTION	ABRASION RESISTANCE	WEATHERING	COEFFICIENT OF FRICTION
Sipiol WL 1120-21	Door sealing, trunk-bonnet, hood sealing	EPDM, Sponge	1K	Aqueous	No Particles	Black	30.0-34.5	10-100	++	++	+++	0.3
Sipiol WL 1120-23	Door sealing, trunk-bonnet, hood sealing, o-rings	EPDM, Sponge	1K	Aqueous	No Particles	Black	31-36	10-150	++	+++	+++	0.3
Sipiol WL 2010-23	Door sealing, trunk-bonnet, hood sealing	EPDM, TPE, Sponge	2K (WV 21 F)	Aqueous	No Particles	Black	31-36	400-600	++	+++	+++	0.26
Sipiol WL 2010-24	Door sealing, trunk-bonnet, hood sealing	EPDM, TPE, Sponge	2K (WV 21 F)	Aqueous	No Particles	Black	31-35	50-150	++	+++	+++	0.26
Sipiol WL 2015-22P	Secondary door sealing, frameless doors, convertibles	EPDM, TPE, Sponge	2K (WV 21 F)	Aqueous	60	Black	34-39	150-300	+++	+++	+++	0.16
Sipiol WL 1025-21	Secondary door sealing, frameless doors, convertibles	EPDM, Sponge	1K	Aqueous	60	Black	36.5-40.5	40-100	+++	+++	+++	0.16
Sipiol WL 1026-21	Secondary door sealing, frameless doors, convertibles, sun roof, electric vehicles	EPDM, Sponge	1K	Aqueous	30	Black	36-40	50-150	+++	+++	++++	0.16
Sipiol WL 1620-21 G	Anti-friction coatings for o-rings	EPDM	1K	Aqueous	No Particles	Matte or Glossy Transparent	31-36, 36-40	10-150, 50-250	++	++	N/A	N/A

+ meets expectations

++ good +++ very good ++++ excellent





SIPIOL® CROSS-LINKERS / ADHESION PROMOTERS / THICKENERS / SETTING AIDES

PRODUCT	MAIN APPLICATION	SUBSTRATE	PROPOSED % IN WEIGHT	CURING REQUIREMENT, °C	POT LIFE
Sipiol WV 21 F	Curative for 2K rubber coating	EPDM, Rubber, TPE	3	25-200	8 hr at 25°C
Sipiol WV 23	Curative for 2K rubber coating	EPDM, Rubber	1K = 1-3 2K = 8	130-200	No pot life limitation
Sipiol HV 3	Adhesion Promoter	EPDM, Rubber, TPE	5-10 for all systems	N/A	Infinite pot life; can be used as a primer on TPE
Sipiol TH2	Thickener	EPDM, TPE	0.2-2	-	No pot life limitation
Sipiol WM 2	Setting aide	all substrates	-	25-180	No pot life limitation

PRIMER FOR COATINGS

PRODUCT	MAIN SUBSTRATE	SOLVENT	COLOR	SOLIDS, %	MAIN APPLICATION
Chemlok 459X	TPE, TPO, EPDM	Xylene	Amber	2.7-4.1	Primer for coatings and flock adhesive
Sipiol WP 8556	TPE, EPDM, NR, HNBR	Water	Opaque Yellow	7.0-10.0	Primer for coatings and flock adhesives
Cuvertin X 8536	TPE, TPO, EPDM	Xylene	Clear to Yellow	1.8-2.2	Primer for coatings and flock adhesives
Cuvertin X 8568	TPE, TPO, EPDM	Xylene	Clear to Yellow	9-11	Primer for coatings and flock adhesives

FLOCKSIL® & PARFLOCK® FLOCK ADHESIVES

PRODUCT	MAIN APPLICATION	1K/2K	MAIN SUBSTRATE	SOLVENT	COLOR	SOLIDS, %	VISCOSITY mPa·s / cps except as noted	CURING, MIN	ADHESION	ABRASION	HUMIDITY STABILITY	SPECIFIC PROPERTIES
Flocksil 1501 SF	Brush or spray	1K	EPDM, NR, CR, SBR	MIBK, Ethyl Acetate, Xylene	Brown	45-49	20-100	5 @ 180°C	+++	+++	+++	Slow curing
Flocksil 1503 EA	Brush or spray	1K	EPDM, NR, CR, SBR, TPE	Xylene, Ethyl Acetate, Methoxyisopropyl Acetate	Black	40-44	40-100	2 @ 180°C	++++	++++	++++	Fast curing
Flocksil 1506 G 1	Brush or spray	1K	EPDM, NR, CR, SBR, TPE	Xylene, Ethyl Acetate, Methoxyisopropyl Acetate	Black	40-44	40-100	2.5 @ 180°C	++++	++++	++++	Low temperature cure
Parflock P 11	Inline, brush or spray	1K	EPDM	Xylene	Black	43-49	16-22	5 @ 180°C	+++	+++	+++	
Parflock P 11 B	Inline, brush or spray	1K	EPDM, TPE	Xylene	Black	43-49	16-22	2.5 @ 180°C	+++	+++	+++	

+ meets expectations ++ good +++ very good ++++ excellent

CUVERTIN® CATALYSTS

PRODUCT	MAIN APPLICATION	MAIN APPLICATION SUBSTRATE		POT LIFE
Cuvertin K 4	Catalyst for flock adhesive	EPDM, TPE	1-3	7 hr
Cuvertin K 8	Catalyst for flock adhesive	EPDM, TPE	1-3	2 hr
Cuvertin K 18	Catalyst for flock adhesive	EPDM, TPE	1-3	2 hr
Cuvertin K 24	CMR-free catalyst for flock adhesive	EPDM, TPE	1-4	7 hr



CHEMLOK® AND CHEMOSIL® GLASS ENCAPUSLATION ADHESIVES

PRODUCT	PRODUCT MAIN APPLICATION		SOLVENT	COLOR	SOLIDS, %	VISCOSITY, mPa·s / cps
Chemlok 487 A/B	Bond thermoplastic elastomers (TPE) to glass, metal and plastics during injection molding	2K	A: Xylene B: MIBK	Clear	A: 12.6-15 B: 1-2	A: 100-350 B: 1-10
Chemlok 489/456	Bond PVC to glass, metals and plastics during injection molding		489: MIBK/Xylene 456: Xylene	Amber	489: 9-11 456: 49-51	489: 80-195 456: <25
Chemosil NL 411	Bond a variety of elastomer compounds to metal and plastic substrates during the vulcanization	1K	Xylene	Black	22-26	200-600

CHEMLOK®, CHEMOSIL® AND CUVERTIN® PRIMERS

PRODUCT	MAIN SUBSTRATE	SOLVENT	COLOR	SOLIDS, %	MAIN APPLICATION
Chemlok 144	Glass fabric, steel, aluminum, brass, e-coated metal, architectural and automotive glass, concrete and some plastics	Toluene, n-Butanol, Ethanol	Clear, Straw Yellow	4.8-6.2	Injection Molding
Chemosil 511	Glass fabric, architectural and automotive glass	Ethanol	Clear to Yellow	5-7	Primer in combination with Chemosil adhesives
Cuvertin X 8536	EPDM, PP, TPE, PE	Xylene	Clear to Yellow	1.8-2.2	Primer for coating, flock adhesive and adhesive

Values stated in this document represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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