



Elastomer Adhesives & Coatings for the Oil & Gas Industry



Adhesives for the Oil & Gas Industry

LORD Chemlok® 6450 and 6451 covercoat adhesives withstand higher operating temperatures. Designed for bonding NBR (nitrile rubber) and HNBR (hydrogenated nitrile rubber), they resist a variety of fluids including oils, fuels and acids. These new adhesives also provide excellent resistance to water, humidity, salt spray and high temperatures. These Chemlok adhesives use new chemistries that are non-chlorosulfonated polyethylene (CSM) based. LORD Chemlok 6450 and 6451 bond uncured rubber-to-metal substrates during the vulcanization of the elastomer. When used with Chemlok 207 primer, these adhesives bond a variety of NBR and HNBR compounds to multiple substrates including aluminum, brass and grit-blasted or phosphatized steel.

For very high-temperature applications, where FKMs (fluoroelastomers) are used, LORD also offers both solvent and aqueous solutions that have proven performance in the field. Chemlok 5150 and 5151 solvent-based adhesives bond fluoroelastomer polymers while also offering strong environmental resistance. Chemlok 8116 aqueous-based adhesive bonds peroxide cured elastomers and performs well in extreme environments.

CHEMLOK® RUBBER-TO-SUBSTRATE ADHESIVES

PRODUCT	DESCRIPTION	COLOR	VISCOSITY, CPS (EXCEPT AS NOTED)	FLASH POINT, °C (°F)	DILUENT	SHELF LIFE
PRIMERS						
144	Solvent-borne primer with UV tracer	Clear, Light Straw	1-8 cSt	1.6 (35)	Urethane Grade Toluene, Methanol, Ethanol	1 year
205	General purpose primer/nitrile adhesive	Gray	85-165	19 (66)	MIBK, MEK	1 year
205LH	Low-HAP primer	Blue	10-550	13 (56)	MPK, N-butyl Propionate	6 months
207	Heat-resistant primer	Gray	70-450	14 (58)	MIBK, MEK	6 months
207LH	Low-HAP primer	Blue	50-450	19 (67)	MAK, MPK	6 months
8009	Aqueous primer	Gray	10-100	>93 (>200)	Deionized Water	6 months
8009B	Aqueous primer	Blue	10-100	>93 (>200)	Deionized Water	6 months
AP-133	Adhesive for silicone/specialties	Clear	≈ 5 cSt	14 (57)	Toluene, Methanol, Ethanol	1 year
ADHESIVES						
205	General purpose primer/nitrile adhesive	Gray	85-165	19 (66)	MIBK, MEK	1 year
213	Urethane-to-metal adhesive	Blue	100-300	5 (41)	Chemlok 248	1 year
218	Urethane-to-metal adhesive	Clear to Slightly Hazy Amber	750-1,050	2 (36)	1:1 Isopropanol; Toluene Blend or Glycol Ether Solvents	1 year
219	Primer/castable urethane and TPU adhesive	Clear to Amber	50-110	14 (58)	MIBK, Denatured Ethanol	1 year
220LH	Low-HAP adhesive	Black	100-650	19 (67)	O-Chlorotoluene, t-Butyl Acetate	1 year
233	General purpose adhesive	Black	100-300	33 (92)	Xylene, Toluene	1 year
234B (NW)	General purpose adhesive	Black	700-1500	28 (83)	Xylene, Trichloroethylene	1 year
238 (NW)	Adhesive for butyl and EPDM	Black	150-800	33 (92)	Xylene	1 year
259	General purpose adhesive	Green-Black	100-500	6.6 (44)	Xylene, Toluene	6 months
286	Tacky tie cement for natural rubber	Black	450-1,200	4 (40)	Xylene, Toluene	6 months
289	Primer for natural rubber lining	Green	20-450	6 (42)	MEK/Xylene Mix	1 year
290	Adhesive for natural rubber lining	Red	20-50	7 (44)	Xylene, Toluene	1 year
607	Colorless one-coat adhesive	Colorless	≈ 1	9 (49)	Methanol, Ethanol	2 years
608	One-coat adhesive	Clear to Hazy Yellow	≈ 1	3 (38)	Methanol, Naptha, Isopropanol, Ethanol	2 years
610	One-coat aqueous adhesive	Orange to Red	≈ 1	>93 (>200)	Deionized Water	2 years
5150	Solvent-based adhesive	Colorless to Pale Yellow	2 typical cSt	6 (43)	Methanol	1 year
5151	One-coat adhesive	Reddish-Yellow	25-30 seconds Zahn #1	-5 (+22)	MEK	6 months
6108	Lead-free covercoat adhesive	Black	300-1,000	27 (80)	Xylene	1 year
6125	Improved heat-resistance Chemlok 220	Black	70-300	27 (81)	Xylene, Toluene	1 year
6253	Lead-free covercoat adhesive	Black	10-46	27 (80)	Xylene	6 months
6254	Heat- and oil-resistant adhesive	Black	150-450	7 (44)	Xylene, Toluene	6 months
6411	Lead-free covercoat adhesive	Black	200-600	25 (77)	Xylene, Toluene	1 year
6411LH	Low-HAP adhesive	Black	100-700	14 (58)	N-Butyl Propionate, Dimethyl Carbonate, Isopavre E	6 months
6450	Covercoat adhesive	Green-Black	5-100	-7(18)	MEK, Xylene	6 months
6451	Covercoat adhesive	Green-Black	5-100	-7(18)	MEK, Xylene	6 months
8116	One-coat, aqueous adhesive	Black	100-900	>93 (>200)	Deionized Water	6 months
8212	Aqueous covercoat adhesive	Black	25-200	>93 (>200)	Deionized Water	6 months
8214	Aqueous covercoat adhesive	Black-Green	20-200	>93 (>200)	Deionized Water	6 months
8560D	General purpose, one-coat aqueous adhesive	Black/Green	100-500	>93 (>200)	Deionized Water	3 months
8560S	General purpose, one-coat aqueous adhesive	Black	50-250	>93 (>200)	Deionized Water	3 months
Ty-Ply® BN	Adhesive for nitrile	Black	20-35 seconds	5.5 (42)	MEK, MIBK, Dry Alcohols	1 year

Data is typical and not to be used for specification purposes.



Performance In Challenging Environments

Need a coating that withstands harsh fluids? How about an abrasion-resistant coating? Our innovative elastomer coatings extend the life of your parts. LORD® High-Performance Coatings (HPCs) provide fuel and ozone resistance while LORD Heat-Reflective Coatings (HRCs) reflect radiant heat.

FEATURES & BENEFITS

- Durable
- Fluid resistant
- Ozone resistant
- Radiant heat dissipating
- Cost-effective

PRODUCT	BASE ELASTOMER	PRIMARY APPLICATION
HPC-3	FKM	Best fuel, solvent and high temperature fluid resistance
HPC-5	HNBR	General purpose, great ozone resistance and good fluid resistance
HPC-6	AEM	Cosmetic coating that provides improved ozone and fluid resistance to an existing substrate. Best used where the material is needed for cosmetic purposes.
HRC	FKM	Excellent for radiant heat dissipation. Reduces part temperature when radiant heat is cause of the high temperature.

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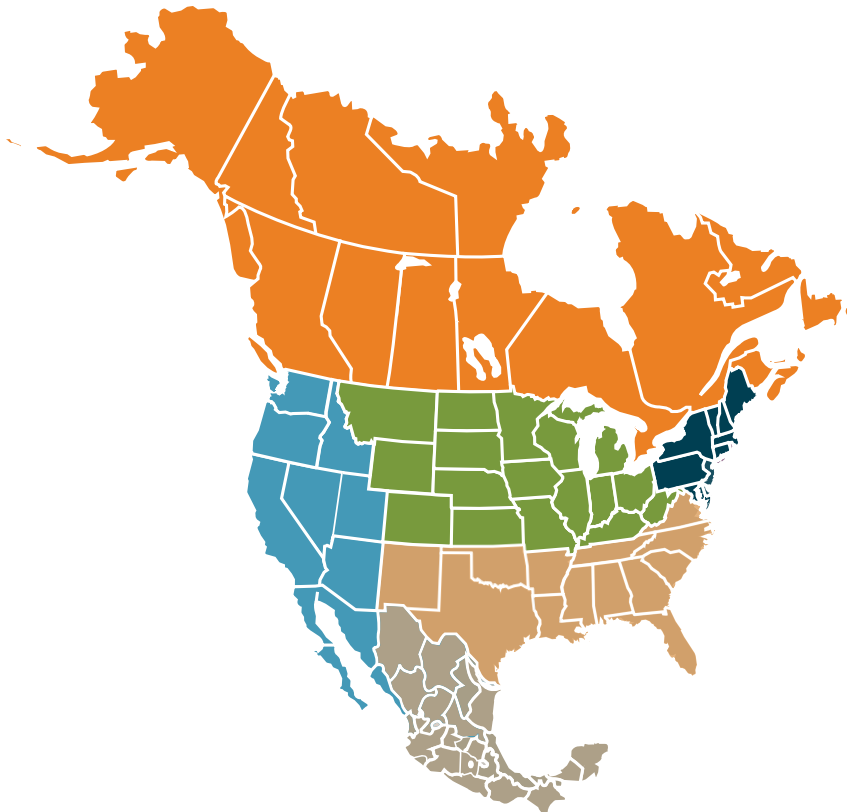
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LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.

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