





PRODUCT OVERVIEW

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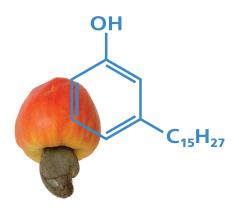
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From the beginning, Cardolite products have been based on cashew nutshell liquid (CNSL), a natural, and annually renewable biomaterial. CNSL can be found in the honeycomb structure of the cashew nutshell and is considered a by-product (non-food chain material) of the cashew nut industry. CNSL-based technology has been widely adopted because there are inherent performance benefits gained from using this starting raw material, unlike using other natural raw materials that can sacrifice performance or cost.

Cardolite Corporation is a privately held manufacturer of a large variety of products derived from cashew nutshell liquid (CNSL), a renewable natural resource. The unique properties of CNSL are used to develop and produce a wide range of specialty curing agents, resins, and diluents for coatings, adhesives, composites and friction applications.

For over 35 years, Cardolite has focused on the production of high quality CNSL-based products with advanced CNSL technology manufacturing facilities in the world located in Zhuhai, Guangdong (China), and Mangalore, Karnataka (India). Cardolite facilities are ISO 9000 registered and strictly adhere to local and best practice health, safety, environmental, and security standards. With sales offices, representatives, and distribution facilities in the Americas, Europe, and Asia, Cardolite prides itself on delivering high quality products and services across the globe.

To further advance CNSL technology, Cardolite also operates three advanced research and technical service facilities in the USA, China and India. By using CNSL as a primary building block, these labs are able to develop adhesive materials that have unique advantages over some traditional adhesive chemistries. Cardolite continues to invest heavily in research, technical support, manufacturing, and market development to meet the ongoing needs of the adhesives industry with innovative, natural, renewable CNSL-based products.



CNSL TECHNOLOGY

Cardanol is a unique natural phenolic material obtained by distilling CNSL and serves as the primary building block for Cardolite products. The molecule is composed of an aromatic ring with an OH group and a long aliphatic side chain, which bring valuable intrinsic benefits to adhesive materials. The aromatic ring provides a strong chemical resistant backbone while the OH group gives high bond strength and good reactivity for fast and low temperature cure. The side chain provides excellent water resistance, good flexibility, low viscosity, and extended pot life. Most Cardolite products have high bio-content of >65%.

Epoxy Curing Agents

FAST BONDING IN EXTREME CONDITIONS

Cardolite phenalkamines and phenalkamides exhibit fast cure even at low temperatures, enable non-critical mix ratios, and show nice film appearance due to good compatibility with epoxy resins. However, due to the long aliphatic side chain of cardanol, CNSL curing agents also provide extended pot life and good flexibility.

The fast and low temperature cure combined with the good pot life properties of CNSL hardeners allow for wider adhesive application window and increased productivity. Faster cure means quicker return to service for two-component field-applied adhesives. In forced cure industrial applications, phenalkamines and phenalkamides can help save energy by lowering oven cure temperatures, or improving process efficiency via increased production line speeds. Finally, by reaching a high level of crosslinking very quickly and not having a narrow mix ratio, failure risks are lowered and problems avoided when environmental conditions change after application.

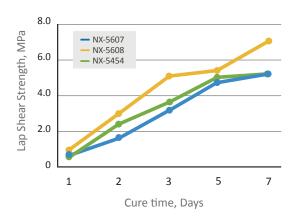
Phenalkamine based Epoxy Adhesion to Concrete

Epoxy Phenalkamine	Pull off Adhesion (psi/MPa)	Rupture Mode
24 hours dry concrete	1,000/6.90	50% dolly to adhesive 50% concrete
3 weeks dry concrete	1,000/6.90	Dolly to adhesive
3 weeks damp concrete	500/3.45	100% concrete

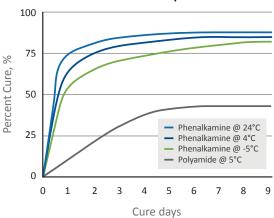


This image shows failure occurs in the concrete and not between dolly/coating and concrete.

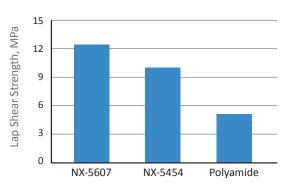
Bond Strength Development with Liquid Epoxy (EEW 190) on Sand Blasted Steel at 0°C



Phenalkamine Low Temperature Cure Data and Comparison



Bond Strength with Liquid Epoxy (EEW 190) on Wet Sand Blasted Steel at 40°C for 16hr Cure





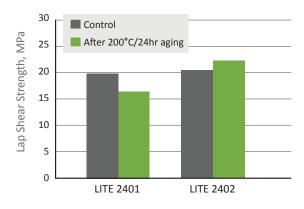
BONDING UNDER WATER

Cardolite curing agents are very hydrophobic due to the long aliphatic chain of the cardanol, which provides excellent water resistance compared to other amine curing agents commonly used in the adhesive industry. The hydrophobicity of CNSL products coupled with their fast cure allows adhesives to quickly develop strong bonds to wet metal, damp concrete, and under water structures. Moreover, CNSL curing agents exhibit excellent chemical resistance due to its aromatic ring, which in combination with their other properties such as high bond strength, result in very good aging properties under different strenuous conditions.

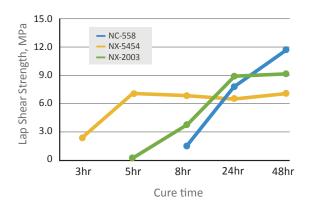
Different Aging Conditions Control IPA 30 Days MEK DI Water RT Heat at 130°C Thermal shock* *130°C for 5 min 11 14 20 ice water for 5 min



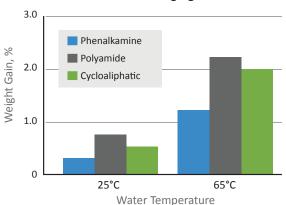
Lap Shear Strength, MPa



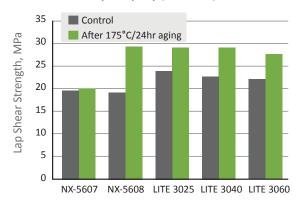
Bond Strength with Liquid Epoxy (EEW 190) on Non-abraded Steel Cured at 22°C **Under Water**



Comparative Water Resistance of CNSL Curing Agents



Thermal Resistance at 175°C Cured with Liquid Epoxy (EEW 190) at 40°C/16hr



Curing Agent Property Selection Chart

Product	Viscosity ¹	Technology	Туре	Color ²	Amine Value³	AHEW ⁴	Gel Time⁵		hin Film ard Tim	
	@ 25°C (cPs)			(Gardner)	(mgKOH/g)		(min)	25°C	5°C	0°C
NC-541	28,000	phenalkamine	solvent free	16	330	130	81	4.5	11	20.5
LITE 2001	28,000	phenalkamine	solvent free	10	330	132	75	3	12.5	19
NC-541LV	2,300	phenalkamine	solvent free	15	340	125	61	7	24+	36
LITE 2001LV	2,500	phenalkamine	solvent free	10	340	125	75	7	17	29
LITE 2010LV	4,100	phenalkamine	solvent free	10	247	125	30	3	13.5	19
NC-540	2,000	phenalkamine	solvent free	15	535	81	42	3.5	13	19
NC-558	900	phenalkamine	solvent free	17	340	95	40	10	22	32
NC-557	1,100	phenalkamine	solvent free	14	355	95	22	7	16.5	27.5
NX-2003	620	phenalkamine	solvent free	10	360	95	25	4.5	18.5	22
NX-2003D	700	phenalkamine	solvent free	13	357	95	25	4.5	15	24
NX-5454	1,080	phenalkamine	solvent free	11	275	133	18	2	7.5	10
LITE 2002	450	phenalkamine	solvent free	10	360	104	51	6	20	30.5
LITE 2002LP	650	phenalkamine	solvent free	10	360	104	85	7	21	39
NX-2007	265	phenalkamine	benzyl alcohol	4	310	113	50	2	16	23.5
NX-2009	370	phenalkamine	benzyl alcohol	7	310	95	31	4	12	20.5
Ultra LITE 2009	330	phenalkamine	benzyl alcohol	1	277	95	34	6	22	32
Ultra LITE 2009SF	5,900	phenalkamine	solvent free	1	404	62	43	7	22	n/a
Ultra LITE 2009H	150	phenalkamine	benzyl alcohol	1	355	95	29	5	19	30
Ultra LITE 2009HSF	500	phenalkamine	solvent free	2	550	57	n/a	n/a	n/a	n/a
NX-4943	1,800	phenalkamine	solvent free	14	488	82	41	4	14	23
NX-5567	770	phenalkamine	solvent free	15	561	66	22	3	10	15
NX-6032	1,200	phenalkamine	benzyl alcohol	10	325	133	20	2	11	16
NX-5607	2,490	phenalkamine	solvent free	10	405	95	14	2	9	14
NX-5608	3,350	phenalkamine	solvent free	10	405	95	13	2.5	12	15
NX-5594	1,000	phenalkamine	solvent free	14	414	76	16	2.5	8	11
LITE 3025	34,000	phenalkamide	solvent free	10	345	103	200	8.5	29	n/a
LITE 3040	5,000	phenalkamide	solvent free	10	380	118	110	7.3	29	n/a
LITE 3060	850	phenalkamide	solvent free	10	460	104	48	5	17.5	n/a
GX-3090	520	phenalkamide	solvent free	7	598	69	45	4.3	19.2	n/a
LITE 2401	90	phenalkamine	solvent free	5	496	61	>90	n/a	n/a	n/a
LITE 2402	105	phenalkamine	solvent free	11	555	56	>85	n/a	n/a	n/a
NT-1541	5,000 @ 75°C	polyamide	solvent free	9	215	198	n/a	n/a	n/a	n/a
NT-1515	4,000 @ 75°C	polyamide	solvent free	8	235	198	n/a	n/a	n/a	n/a
NT-1542	40,000	polyamide	solvent free	7	350	103	n/a	8	n/a	n/a
NT-1544	10,000	polyamide	solvent free	8	380	97	n/a	9	n/a	n/a
NT-1545	3,000	polyamide	solvent free	8	380	103	n/a	11	n/a	n/a

¹ASTM D2196 ²ASTM D1544 ³ASTM D2074 ⁴Theoretical based on total product weight ⁵50g at 25°C ⁶ASTM D5895 @ 200 micron with LER (EEW 190)

Curing Agent Mechanical Properties Selection Chart

Curing Agent	Tg ⁷ (°C)	Tensile Strength (MPa)	Flexural Strength (MPa)	Compressive Strength (MPa)	Elastic Modulus (MPa)	Lap Shear ⁸ (MPa)
NC-540	105	54	98	81	2,457	16
NC-558	61	41	105	56	1,985	21
NX-2003	74	55	94	76	2,384	20
NX-2003D	79	51	108	75	2,309	20
NX-5454	60	47	88	72	2,019	12
LITE 2002	77	56	115	78	2,314	15
NX-2007	70	57	105	88	3,170	14
NX-2009	57	51	101	80	2,500	20
Ultra LITE 2009SF	73	65	119	112	3,159	15
Ultra LITE 2009HSF	127	61	93	109	3,349	14
NX-4943	94	61	111	87	2,785	17
NX-6032	52	49	92	75	2,515	20
NX-5607	93	51	123	97	2,811	18
NX-5608	99	62	114	92	2,647	16
NX-5567	113	65	117	97	2,681	17
NX-5594	95	73	127	105	3,098	14
LITE 3025	87	57	105	86	2,397	23
LITE 3040	75	52	97	77	2,173	23
LITE 3060	76	66	110	89	2,696	18
GX-3090	98	57	122	105	2,931	15
LITE 2401*	126	70	105	91	2,902	19
LITE 2402*	130	68	112	92	2,670	20

 7 DSC 8 Sand blasted substrate 7 Test specimen cured at 40°C for 16 hours with liquid epoxy (EEW 190) * Cured at RT/8hr + 120°C/2hr

WATERBORNE TECHNOLOGY

The NX-8000 Series is the first CNSL-based waterborne curing agent product line available in the market. Phenalkamine NX-8101 is designed for water-based concrete grouts, mortars and adhesives that require fast hardness development, excellent bond strength to dry and wet concrete, high compression strength, and good compatibility with various solid and liquid epoxy resins. NX-8401 is an emulsion type CNSL curing agent that is easily reducible in water and provides very long pot life. NX-8101 and NX-8401 are supplied in water and do not contain or require any solvents in the formulation to deliver excellent performance.

Waterborne Curing Agent Property Chart

Product	Viscosity ¹ @ 25°C	Solids ⁷	Color ²	Amine Value ³	AHEW⁴	Gel Time⁵	Thin Dry Hard Ti	Film ⁶ me (hours)
rroduct	(cPs)	(%)	(Gardner)	(mgKOH/g)	Allew	(min)	25°C	5°C
NX-8101	35,000	50	8	160	270	45	3	9
NX-8401	8,000	55	emulsion	135	290	n/a	2.8hr at 25°0 dispe	

Epoxy Resins, Diluents, and Modifiers

In addition to epoxy curing agents, Cardolite offers a line of cardanol derived epoxy resins, diluents, and modifiers that provide tools to formulators looking to add unique properties to their adhesives.

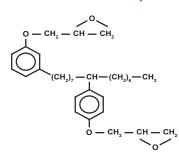
CARDOLITE NC-513/ULTRA LITE 513/LITE 513E



Cardolite NC-513 and Ultra LITE 513 are monofunctional reactive epoxy diluents that can be used to increase flexibility, impact resistance, water resistance, and

flexural strength. These reactive diluents have very low viscosities and low volatilities, which make them ideal for helping formulate solvent-free adhesives. As for other cardanol based products, these diluents are hydrophobic and exhibit very good water resistance. Good reactivity means these diluents react completely into the epoxy network which can increase the bond strength. Ultra LITE 513 is a lower viscosity, higher purity, and lighter colored version of NC-513; they are both identical in chemical make-up. LITE 513E is a very low total chlorine version of NC-513 suitable for electronic applications.

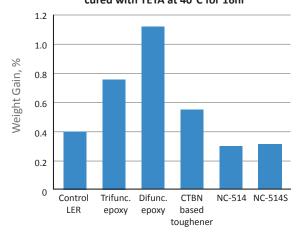
CARDOLITE NC-514/NC-514S

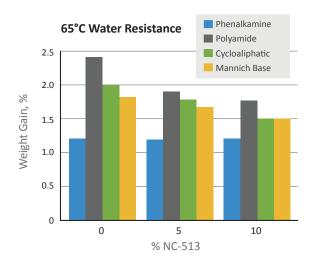


Cardolite NC-514 and NC-514S are flexible difunctional glycidyl ether epoxy resins. NC-514S is lower in viscosity. The chain of 8 carbons separating the aromatic groups allows this resin

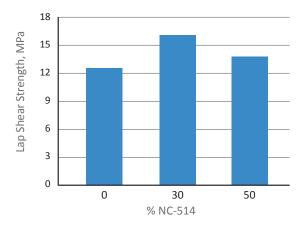
to be used in conjunction with traditional epoxy resins or as a sole resin to increase adhesive flexibility, water resistance, and bond strength while minimizing reduction in mechanical strengths.

25°C Water Resistance for 7 Days 30% epoxy modifier with Liquid Epoxy (EEW 190), cured with TETA at 40°C for 16hr





NC-514 Effect on Bond Strength Added to Liquid Epoxy (EEW 190) and cured with NX-2003 on non-abraded carbon steel



CARDOLITE NC-547

Cardolite NC-547 is a polyglycidyl ether epoxy novolac resin derived from cardanol. This resin can be used in conjunction with standard epoxy resins to bring additional flexibility and longer pot life to adhesives without adversely affecting chemical and water resistance.

CARDOLITE LITE 2020/Ultra LITE 2020*

$$O-CH_{2}-CH_{2}-OH$$
 $C_{7}H_{4}CH=CH-CH_{2}-CH=CH-C_{3}H_{7}$

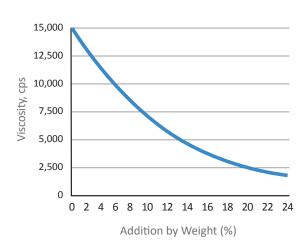
Cardolite LITE 2020 and Ultra LITE 2020 are low viscosity multipurpose resin modifiers. They are 100% non-volatile and therefore useful for formulating environmentally friendly solvent free adhesives. Due to their unique chemical structure, LITE/UL 2020 are more efficient than traditional hydrocarbon resins in reducing viscosity despite being higher in viscosity. Their hydrophobic nature allows for good corrosion resistance and early water resistance. Ultra LITE 2020 is a lower color version of LITE 2020.

CARDOLITE NX-202X SERIES

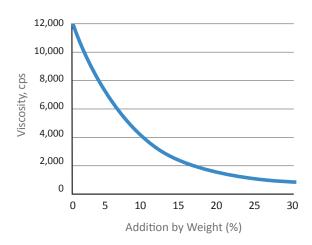
Cardolite NX-202x products are low viscosity multipurpose resin modifiers. The long hydrophobic aliphatic side chain of the cardanol molecule gives these products a very low viscosity and provides excellent early water resistance and corrosion protection. By using NX-202x products as epoxy diluents and accelerators, high solids or solvent-free formulations can be achieved with enhanced workability and faster cure without sacrificing other performance properties. Ultra LITE 2023, NX-2023(D), and NX-2026 are light color stable. NX-2024 and NX-2025 are less color stable and more cost effective. These products are a good alternative to synthetic phenolic diluents and modifiers that have unfavorable labeling.



NC-513 and Ultra LITE 513 Dilution Curve (25°C with Liquid Epoxy Resin, EEW=191)



NX-202x and LITE 2020 Dilution Curve (25°C with Liquid Epoxy Resin, EEW=191)



CARDOLITE LITE 2100*/LITE 2100R

Cardolite LITE 2100 and LITE 2100R are low color and low viscosity cashew nutshell liquid modified hydrocarbon resins. They are recommended as an epoxy modifier for use in adhesives, coatings, and tar replacement. These products are designed to enable high solids and solvent free formulations by lowering the viscosity of epoxy resins more efficiently than typical phenol based hydrocarbon resins and by improving overall system compatibility for better film formation and protective performance. In addition, LITE 2100 and LITE 2100R show less effect on dry time than competitive chemistries and they can increase hardness development of the final product while providing improved flexibility and impact resistance. The high hydrophobicity of this product results in excellent water and moisture resistance, and more importantly, excellent corrosion protection on immersed and vapor exposed surfaces. Moreover, both products show very good UV resistance with excellent gloss retention for use in lighter color products.

Epoxy Resin, Diluent, and Modifier Property Selection Chart

Product	Туре	Color¹ (Gardner)	Viscosity ² (cPs)	EEW³	Hydrolyzable Chlorine⁴ (%)
NC-513	Reactive diluent	9	40 - 70	425 - 575	≤ 2
LITE 513E	Reactive diluent	5	20 - 40	360 - 410	Total chlorine <1000ppm
Ultra LITE 513	Reactive diluent	1	20 - 35	350 - 425	≤ 0.5
NC-514	Epoxy resin	17	25,000	350 - 500	≤ 2
NC-514S	Epoxy resin	12	2,000	350 - 500	≤ 0.5
NC-547	Epoxy novolac resin	18	28,000	550 - 850	≤ 2.5
LITE 2020	Nonreactive resin modifier	≤ 14	30 - 115	-	-
Ultra LITE 2020	Nonreactive resin modifier	≤ 2	60	-	-
LITE 2100	Hydrocarbon resin modifier	≤ 4	450 - 750	-	-
LITE 2100R	Hydrocarbon resin modifier	≤ 4	500 - 1,500	-	-
NX-2023D	Nonreactive resin modifier	≤ 15	80 - 140	-	-
NX-2023	Nonreactive resin modifier	≤ 6	40 - 100	-	-
Ultra LITE 2023	Nonreactive resin modifier	1	40 - 100	-	-
NX-2024	Nonreactive resin modifier	4 - 9	45 - 60	-	-
NX-2025	Nonreactive resin modifier	≤ 5	≤ 60	-	-
NX-2026	Nonreactive resin modifier	≤ 2	≤ 60	-	-

¹ ASTM D1544 ² ASTM D2196 at 25°C ³ ASTM D1652 ⁴ ASTM D1726 Hydrolyzable chlorine

^{*} LITE/Ultra LITE 2020 and LITE 2100 are not approved for sale in Europe

CNSL Polyols, Diols, and Blocking Agents

POLYOL AND DIOLS

Cardolite CNSL-based polyols have unique qualities compared to widely known polyester and polyether polyols, and other natural oil based polyols. CNSL polyols are very hydrophobic because of the long aliphatic chain of cardanol. This hydrophobicity provides excellent water resistance and less moisture sensitivity during cure with isocyanate for increased durability of the final polyurethane system.

Different from other renewable polyols obtained from soy and castor oil, CNSL polyols have an aromatic structure that translates into excellent thermal resistance and chemical resistance to acid and alkaline solutions. Moreover, the combination of aromaticity and long aliphatic chain delivers hydrolytic stability and mechanical strength to CNSL-based polyols.

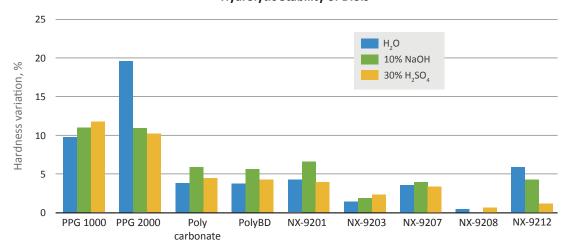
CNSL diols exhibit excellent compatibility with polyether diols, polyBD, tackifier, and EVA giving formulators greater latitude to achieve desired properties and meet cost targets. In addition, CNSL diols provide faster cure compared to other diols reducing the need of catalysts. These diols are suitable for use as a binder or building block for pre-polymers in one-component adhesives.

CNSL Diols Compatibility Chart

Material Compatibility Percent*	NX-9201 (LP)	NX-9203 (LP)	NX-9208	NX-9212	PolyBD
PPG 1000	100%	100%	100%	100%	< 55- 60%
PPG 2000	100%	100%	100%	100%	< 55- 60%
PolyBD	< 30%	100%	0%	< 50%	na
Ethylene vinyl acetate (EVA)	Hazy, 100%	Hazy, 100%	< 50%	100%	Hazy, 100%
Tackifier (aliphatic hydrocarbon)	< 40%	100%	> 50%	> 30%	100%
Tackifier (polybutane)	0%	0%	Compatible at 50%	0%	0%

^{*} Percent in the blend of the diol shown in each column header

Hydrolytic Stability of Diols



*Cured prepolymer (7% NCO) exposed for 21 days at 25°C

CNSL Polyols Property Selection Chart

Product	Description	Color¹ (Gardner)	Viscosity² (cPs)	Hydroxyl Value³ (mg KOH/g)	Hydroxyl Eq. Weight⁴ (g/mole)
NX-9001	CNSL Novolac Polyol	18	2,000	175	320
NX-9001LV	Low Viscosity CNSL Polyol	18	1,000	175	320
NX-9004	CNSL Polyol	18	5,000	198	283
LITE 9001	Low color CNSL Polyol	6	2,000	175	320
NX-9005	Non-CNSL Branched Polyol	≤ 5	3,000	170	330
NX-9006 ⁵	CNSL Novolac Polyol	18	3,000	190	295
NX-9007	CNSL Branched Polyol	14	2,900	175	320
NX-9008	High Strength CNSL Polyol	10	3,000	320	175
NX-9011	Tough non-CNSL Polyol	≤ 5	1,800	224	250
NX-9014	High UV Resistance non-CNSL Polyol	≤ 5	1,200	256	219
NX-9201	CNSL Polyester Diol	14	1,400	75	748
NX-9203	CNSL Polyester Diol	14	3,000	85	660
NX-9201LP	Lower reactivity NX-9201	14	1,300	70	801
NX-9203LP	Lower reactivity NX-9203	14	2,000	115	488
NX-9207	High Strength Non-CNSL Polyester Diol	Pale yellow	Waxy solid	132	425
NX-9208	High Strength CNSL Polyester Diol	Pale brown	Waxy solid	78	719
NX-9212	CNSL Polyether Diol	≤ 5	450	55	1020

¹ ASTM D1544 ² ASTM D2196 at 25°C ³ ASTM D1957 ⁴ Calculated ⁵ Light color version available

NCO BLOCKING AGENT

High purity and light color cardanol, NX-2026, is an effective isocyanate blocking agent that can be used to replace petro-based phenols. NX-2026 blocked NCO systems should be lower in viscosity and require lower deblocking temperatures than phenol. Moreover, cardanol can act as a flexibilizer in the final matrix.

Blocking Agent	NCO Туре	Deblock Temperature (°C)
NX-2026*	PPG prepolymer (10.4% NCO)	128
Phenol	PPG prepolymer (10.4% NCO)	140

^{*}Properties on page 10



Adhesive Applications

Technology	Application Industry	End Use	Key Products
	Construction	Grouts, tile adhesives, anchoring adhesives, dry hanging, potting, concrete bonding, construction joints	NX-5607, NX-5608, LITE 2002, NX-2003, NC-558, NX-2024, NX-2026, NX-8101, NT-1544
	Transportation	Car body adhesives, auto body patch, automobile assembly (1k and 2k adhesives), interior sealants (acoustics), composite bonding, plastic bonding, boat building adhesives, underwater repair for marine	NX-5607, NX-5608, LITE 3040, LITE 2010LV, NC- 558, NC-513, UL 513, NC- 514, NC-547, NX-5454, NX-2003, NX-2024, NT-1544
Ероху	Infrastructure	Road repairs, pipe bonding, potable water filters, rail track grout, underwater repair	NX-6032, LITE 3060, NC-558, NX-5454
	Industrial	Potable water, engineering adhesive, solar cell adhesive, aluminum bonding, putty adhesive, honeycomb panel bonding, polishing wheel, sand paper	NC-558, NC-557, LITE 2002, NX-5608, NX-5607, LITE 3040, NX-6032, GX-6004, NT-1541, NT-1544
	Electronics	Chip adhesives, electronic encapsulation	LITE 513E, Ultra LITE 513
	Building and Construction	Glass sealant, potting, sealant, water proofing	NX-9001(LV), LITE 9001, NX-9006, NX-9005, NX-9007, NX-9011, NX-9201(LP), NX-9203 (LP)
Polyurethane	Transportation	Structural adhesives, PUR hot melt adhesives, sealants and sealers	NX-9201(LP), NX-9203(LP), NX-9207, NX-9208, NX-9212, NX-2026, NX-9008, NX-9014
	Packaging	Cork adhesive, prepolymers, NCO blocking agents	NX-9201LP, NX-9203LP, NX-9207, NX-9208, NX-9212, NX-2026, NX-9006
	Industrial	Honeycomb panel bonding, wind blades	NX-9005, NX-9004, NX-9008, NX-9011, NX-9014

Notes







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