







PRODUCT OVERVIEW



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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 the world's largest 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.

With over 30 years of experience, Cardolite is the leader in the production of high quality CNSL-based products with the most 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 two advanced research and technical service facilities in the USA and China. 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.

| 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 |
| . All and the second | This image show | s failure occurs |

Phenalkamine based Epoxy Adhesion to 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.



Thermal Resistance at 200°C , Cured with Liquid Epoxy (EEW 190) at 80°C/16hr + 120°C/2hr



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 @ 25°C | osity ¹ .5°C Technology Typ | Туре | Color ² (Gardner) | Amine Value ³ | AHEW ⁴ | Gel Time⁵ | Thin Film ⁶ Dry Hard Time (hours) | | |
|-------------------|----------------------------------|---|----------------|---------------------------------|-----------------------------|-------------------|--------------|--|------|------|
| | (cPs) | | | (Guruner) | (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 |
| NC-566 | 1,800 | phenalkamine | solvent free | 14 | 380 | 95 | 25 | 3.5 | 9 | 14 |
| 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 |
| NX-5198 | 140 | phenalkamine | solvent free | 11 | 300 | 179 | 15 | 2.4 | 13 | n/a |
| 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 |
| 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 |
| LITE 2403 | 230 | phenalkamine | solvent free | 5 | 526 | 58 | >170 | n/a | n/a | n/a |

¹ASTM D2196 ²ASTM D1544 ³ASTM D2074 ⁴Theoretical based on total product weight ⁵50g at 25°C ⁶ASTM D5895 @ 200 micron ⁷ASTM D2369-98

Curing Agent Mechanical Properties Selection Chart

| Curing Agent | Тg ⁷ (°С) | Tensile Strength (MPa) | Flexural Strength (MPa) | Compressive Strength (MPa) | Elastic Modulus (MPa) | Lap Shear ^s (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 |
| NX-5198 | 38 | 13 | 27 | 23 | 581 | 11 |
| 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 |
| 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-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 |
| LITE 2403* | 145** | 63 | 97 | 81 | 2,568 | 23 |

⁷DSC ⁸Sand blasted substrate Test specimen cured at 40°C for 16 hours with liquid epoxy (EEW 190) *cured at RT/8hr + 120°C/2hr **cured at 80°C/10hr + 140°C/6hr

WATERBORNE TECHNOLOGY

The NX-8100 Series is the first CNSL-based waterborne curing agent product line available in the market. Phenalkamine grade NX-8101 is designed for cost effective water-based concrete grouts, mortars and adhesives that require fast hardness development, excellent bond strength to dry and wet concrete, and high compression strength. NX-8101 is supplied in water and does not contain or require any solvents in the formulation to deliver excellent performance. Moreover, its good compatibility with various epoxy resins, easy reducibility in water, and visible end of pot life makes NX-8101 friendly to use.

Thin Film⁶ Viscosity¹ Amine Gel Solids⁷ Dry Hard Time (hours) Color² AHEW⁴ Product @ 25°C Value³ Time⁵ (%) (Gardner) (cPs) (mgKOH/g) (min) 25°C 5°C NX-8101 35,000 50 270 45 3 9 8 160

Waterborne Curing Agent Property Chart

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



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.

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),





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*

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Cardolite LITE 2020 is a low viscosity multipurpose resin modifier. This resin is 100% non-volatile and is therefore useful for formulating environmentally friendly solvent free adhesives. Due to its unique chemical structure, LITE 2020 is more efficient than traditional hydrocarbon resins in reducing viscosity despite being higher in viscosity. Its hydrophobic nature allows for good corrosion resistance and early water resistance.

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.

| Product | Туре | Color ¹ (Gardner) | Viscosity ² (cPs) | EEW ³ | Hydrolyzable Chlorine⁴ (%) |
|-----------------|-------------------------------|---------------------------------|---------------------------------|------------------|-------------------------------|
| NC-513 | Reactive diluent | 9 | 40 - 70 | 425 - 575 | ≤ 2 |
| 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 | - | - |
| LITE 2100 | Hydrocarbon resin modifier | ≤ 4 | 450 - 750 | - | - |
| LITE 2100R | Hydrocarbon resin modifier | ≤ 4 | 500 - 1,000 | - | - |
| 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 | - | - |

Epoxy Resin, Diluent, and Modifier Property Selection Chart

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

* 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, the absence of ester bonds (hydrolyzable), and fewer ether oxygen atoms compared to typical polyether polyols (less hydrophilic). 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

| Diol | NX-9201 | NX-9203 | PolyBD |
|---|--------------------------|--------------------------|--------------------------|
| PPG 1000 | 100% compatible | 100% compatible | Max solubility 55-60% |
| PPG 2000 | 100% compatible | 100% compatible | Max solubility 55-60% |
| PolyBD | Max solubility 30% | 100% compatible | na |
| Ethylene vinyl acetate (EVA) | Hazy, 100% compatible | Hazy, 100% compatible | Hazy, 100% compatible |
| Tackifier (aliphatic hydrocarbon) | Max solubility 40% | 100% compatible | 100% compatible |
| Tackifier (polybutane) | Incompatible | Incompatible | Incompatible |



Hydrolytic Stability after 21 Days in 25°C Immersion, Cured prepolymer (7% NCO)

CNSL Polyols Property Selection Chart

| Product | Description | Color ¹ (Gardner) | Viscosity ² (cPs) | Hydroxyl Value ³ (mg KOH/g) | Hydroxyl Eq. Weight⁴ (g/mole) |
|-----------|---------------------------|---------------------------------|---------------------------------|--|-------------------------------------|
| NX-9001 | CNSL Polyol | 18 | 2,000 | 175 | 320 |
| NX-9001LV | Low Viscosity CNSL Polyol | 18 | 1,000 | 155 | 362 |
| NX-9004 | CNSL Polyol | 18 | 5,000 | 212 | 265 |
| LITE 9001 | Low color CNSL Polyol | 6 | 2,000 | 175 | 320 |
| NX-9005 | Non-CNSL Branched Polyol | 5 | 3,000 | 170 | 330 |
| NX-9007 | CNSL Branched Polyol | 14 | 2,900 | 175 | 320 |
| NX-9008 | High Strength CNSL Polyol | 10 | 3,000 | 320 | 175 |
| 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 | 100 | 561 |

¹ ASTM D1544 ² ASTM D2196 at 25°C ³ ASTM D1957 ⁴ Calculated

NCO BLOCKING AGENT

High purity and light color cardanol, NX-2026, is an effective isocyanate blocking agent that can be used to replace petrobased 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-2021, NX-2026, NX-8101 |
| | 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-2021 |
| 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 | NC-558, NC-557, LITE 2002, NX-5608, NX-5607, LITE 3040, NX-6032, GX-6004 |
| | Electronics | Chip adhesives, electronic encapsulation | Ultra LITE, NC-513 |
| Polyurethane | Building and Construction | Glass sealant, potting, sealant, water proofing | NX-9001, LITE 9001, NX-9201(LP), NX-9203(LP), NX-9005, NX-9007 |
| | Automotive | Structural adhesives | NX-2021 |
| | Packaging | Cork adhesive, prepolymers, NCO blocking agents | NX-9201(LP), NX-9203(LP), NX-2026 |
| | Industrial | Honeycomb panel bonding, wind blades | NX-9005, NX-9004 |









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