

ND ADHESIVES & SEALANTS DIVISION

Locking, Sealing, Bonding

UserApplied



Automotive Approved
Meets Military Specifications



MISSION STATEMENT:

- ❑ Since our founding in 1955, ND Industries has maintained a leadership position in the pre-application of self-locking and self-sealing elements to threaded fasteners. ND has expanded our products' versatility with an extensive line of **UserApplied** locking, sealing, and bonding products developed by our Adhesives and Sealants Division. Our range of products and services are by far the most extensive in the industry. It is our goal to provide our customers not only the finest products available but also to support them with an unsurpassed level of technical service.

DESCRIPTION:

- ❑ ND's complete line of **UserApplied** locking, sealing, and bonding materials are a top quality alternative to similar products and competitively-priced. Select from the following products:
 - ❑ Threadlockers
 - ❑ Threadsealers
 - ❑ Activators / Primers
 - ❑ Pipe Sealants
 - ❑ Cyanoacrylates (Superglues)
 - ❑ Liquid Gaskets
 - ❑ Structural Adhesives
 - ❑ Retaining Compounds
 - ❑ Anti-Seize Compounds
- ❑ Due to the effectiveness of our comprehensive staff of chemists (many with varying specialties), ND leads the market in non-ozone depleting anaerobic primers and CA accelerators.



FEATURES & BENEFITS:

- ❑ **Top Quality:** As evidenced by our users.
- ❑ **Price:** Extremely competitive.
- ❑ **Delivery:** ND is committed to on-time delivery. Typically orders are shipped within 48 hours of receipt.
- ❑ **Formulas:** ND offers innovative new formulas as well as a variety of existing formulas and colors to compete with those currently on the market.
- ❑ **Experience:** ND boasts over 40 years experience and more than 100 products related to locking, sealing, and bonding of fasteners.



- ❑ **Technical Service:** ND's knowledgeable staff of technical support personnel are always happy to assist.



USERS OF OUR PRODUCTS INCLUDE:

- ❑ United States Armed Forces
- ❑ Ford Motor Company
- ❑ Volvo GM
- ❑ Fruit Of The Loom
- ❑ Just to name a few

ND's bottled adhesives, sealants, and bonding products meet and exceeds the performance requirements of the following specifications and/or standards:

MILITARY

MIL-A-46050C, MIL-R-46082B, MIL-S-22473E, MIL-S-46163A

AUTOMOTIVE

Ford WSK-M2G348-A7, WSK-M2G349-A1, WSK-M2G351-A1, A3, and A5

INDUSTRIAL FASTENER INSTITUTE

IFI-125, IFI-525

MIL SPEC	* LOC TITE	ND	PRODUCT	COLOR	APPROX. VISCOSITY [cPS]	TORQUE STRENGTH BREAK/PREVAIL [IN LB]	DESCRIPTION
MIL-S-46163			THREAD LOCKING				THREAD LOCKING
Type II Grade M	222	111200	ScrewGrade®	Purple	1200 Thixotropic	75/25	A low strength threadlocker which eliminates vibrational loosening, and seals against leakage and corrosion. Typical uses: soft metal fasteners, precision screws, and locking fasteners smaller than ¼" in diameter.
Type II Grade N	242	121200	NutGrade®	Blue	1200 Thixotropic	120/45	A medium strength threadlocker. Seals most types of nuts and bolts allowing disassembly using standard tools. Typical uses: studs and bolts, threaded pipe fittings, and locking nuts or bolts larger than ¼" in diameter.
Type II Grade O	262	131600	StudGrade® CT	Red	1600 Thixotropic	200/100	High strength threadlockers for maximum security. Suitable for most applications where disassembly is not required. Typical uses: studs and bolts, and threaded pipe fittings.
Type I Grade K	271	140500	StudGrade®	Red	500	250/275	
Type III Grade R	290	150012	Penetrating Adhesive Sealant	Green	12	60/300	Designed specifically for use on pre-assembled connections. Seals small gaps through capillary action. Typical uses: pre-assembled fasteners, and porous die castings.
MIL SPEC	* LOC TITE	ND	PRODUCT	COLOR	APPROX. VISCOSITY [cPS]	SHEER STRENGTH [PSI]	DESCRIPTION
MIL-R-46082			RETAINING				RETAINING
Type I	609/675	530125	Shaft & Bearing Retainer	Green	125	3000	A high strength adhesive for retention of cylindrical components, where disassembly is not required. Typical uses: rotors, shafts, bushings, bearings, and pulleys.
MIL-A-46050C			BONDING				BONDING
Type II Class 1	495	310035	General Purpose Cyanoacrylate	Clear	35	3000	A low viscosity ethyl-based cyanoacrylate that exhibits fast cure speeds on a wide range of common materials such as metals, rubbers, and plastics. Typical uses: loudspeaker components, rubber O-rings, belts, and bumpers.
Type II Class 2	414	310100	Medium Viscosity Cyanoacrylate	Clear	100	3300	A medium viscosity ethyl-based cyanoacrylate particularly suitable for rubbers and plastics. It is fast acting and may be fillet cured using ND Excel Accelerators. Typical uses: rubber O-rings, and rubber seals in domestic appliances.
	-	310300	Instant Superglue Ethyl Cyanoacrylate	Clear	250-370	1500-3830	A medium to low viscosity cyanoacrylate which is used for bonding plastics and rubber in various combinations.
	-	330600	Instant Superglue Surface Sensitive	Clear	500-600	3000-3700	A medium viscosity, general purpose cyanoacrylate which is also surface sensitive. Can handle a wide array of materials which include wood, cork, leather, stone and plastics, in any combination.

® ND Industries is a registered trademark of ND Industries, Inc.

* LOCTITE is a registered trademark of Loctite Corp.

**For more information on ND Adhesives and Sealants Division, call toll free 1-800-521-2663,
for any of ND Industries' other quality fastening products, contact your nearest ND Service Center:**

ND Adhesives & Sealants Division
750 Wylly Avenue
Sanford, Florida 32773
Phone: 800-521-2663
FAX: 407-322-5679

**ND Western Fastener
Processing Division**
13929 Dinard Avenue
Santa Fe Springs, California 90670
Phone: 562-926-3321
FAX: 562-926-4266

**ND Southwestern Fastener
Processing Division**
3611 Dalworth Street
Arlington, Texas 76011
Phone: 817-633-2788
FAX: 817-649-7730

**ND Midwestern Fastener Processing
Division/Chicago**
1840 Raymond Drive
Northbrook, Illinois 60062
Phone: 847-498-3600
FAX: 847-498-1582

**ND Midwestern Fastener Processing
Division/Detroit**
1893 Barrett Road
Troy, Michigan 48084
Phone: 248-362-1200
FAX: 248-362-2737

**ND Midwestern Fastener Processing
Division/Thunderbird Operations**
1765 Thunderbird Street
Troy, Michigan 48084
Phone: 248-362-2565
FAX: 248-362-2657

**ND Midwestern Fastener Processing
Division/Cleveland**
9051 Dutton Drive
Twinsburg, Ohio 44087
Phone: 216-425-3167
FAX: 216-425-3065

**ND Southeastern Fastener
Processing Division**
2220-C Center Park Drive
Charlotte, North Carolina 28217
Phone: 704-329-0033
FAX: 704-329-0975

**ND Eastern Fastener
Processing Division**
128-2 Bauer Drive
Oakland, New Jersey 07436
Phone: 201-651-1500
FAX: 201-651-1400



Solutions For Fastening Technology

Corporate Offices and R&D Center

1893 Barrett Road · Troy, Michigan 48084 USA · Phone: 248-362-1209 · Fax: 248-362-1730

Visit our web site at www.ndindustries.com · e-mail: ndinfo@ndindustries.com