

# ND EPOXY-LOCK®

闭锁紧固粘合剂

PreApplied



ND Industries® is ISO9001:2000 / AS9001B / QPL-18240F Listed / QSLM Registered



汽车行业标准  
环保产品

## 产品描述:

- ND Epoxy-Lock兼具防松及防漏的功能,可应用在各种螺丝及螺帽的扣件成品上,此为ND开发之专有防松加工技术,且符合环保的要求。
- ND Epoxy-Lock一直维持在钝化状态下,直到涂料扣件与对锁件结合后,会促使环氧树脂与硬化剂混合,产生化学反应后,形成强大黏附效果,达到扣件防松加工之目的。涂布ND Epoxy-Lock的扣件,与其对锁件锁合后即可产生黏合硬化的功能,在12小时后,胜过尼龙料的第一次旋出效果,在24小时后可达到80%的硬化效果,并于72小时后达到完全硬化的功能。



## 产品特色:

- 旋入扭力小:方便组立加工。
- 特殊的锁紧力量:ND Epoxy-Lock可提供至少高于尼龙料2至4倍以上之破坏扭矩(Breakaway Torque)。
- 扣件表面的多样性:适合应用在各种表面处理,包括塑料。
- 凌驾IFI(工业螺丝扣件机构标准):ND Epoxy-Lock可超出所有IFI 125和IFI 525的扭矩规范,并广泛使用汽车工业之扣件上。
- 保存期限长:加工后,ND Epoxy-Lock保持钝化状态直到旋入对锁件后才会产生反应。
- 不受外来物质影响:适用于各种不同表面处理及材质的扣件上,当ND Epoxy-Lock旋入硬化固定后,对外在的物质如:油脂、汽油、盐喷、酸性物质、溶剂、水和空气,皆不会造成影响,具有绝佳之抗阻性。
- 省钱:ND Epoxy-Lock快速自动加工方式达到最有效之经济效益。

## SPECIFICATIONS:

Primary usage.....	Heavy duty lock
Reusability.....	Limited
Breakaway torque.....	Exceeds IFI 525
Prevailing torque.....	Exceeds IFI 525
Engagement torque.....	Minimal
Temperature range.....	-65°F to +392°F (-54°C to +200°C)
Typical coating length.....	1.5 times thread diameter
Cure time.....	72 hours at room temperature (reduced at elevated temp.)
Lead thread requirement.....	None
Coating projection over threads.....	None
Resin system.....	Curing resin
Standard color.....	Orange (blue and yellow available upon request)
Storage life of parts(before use).....	2 years (extreme storage conditions affect shelf life)
Compare to.....	3M® Scotch-Grip®, Loctite® Dri-Loc®, PRECOTE 80®

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稳得电子(昆山)有限公司  
 ND ELECTRONICS (KUNSHAN) CO., LTD

# ND EPOXY-LOCK<sup>®</sup>

## Fastener Adhesive



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**Automotive Approved**  
**Environmentally Friendly**



### DESCRIPTION:

- ❑ ND Epoxy-Lock is a powerful locking & sealing factory **PreApplied** thread adhesive that can be applied to male or female threaded fasteners of all sizes and configurations.
- ❑ ND Epoxy-Lock remains inert until the coated fastener is assembled to its mating part. The forces of engagement crush the surface skin, mix the separate epoxy components and initiate a chemical reaction which locks the parts together.
- ❑ Within minutes of assembly, ND Epoxy-Lock forms a bond between surfaces which can only be broken with a wrench. After 12 hours, Epoxy-Lock outperforms most nylon locking elements in first-off torque. After 24 hours, ND Epoxy-Lock has achieved up to 80% of its ultimate cure. Curing continues for up to 72 hours following installation.

### FEATURES:

- ❑ **Process:** ND's skilled staff of engineers has developed a unique, highly repeatable, environmentally friendly fastener coating process.
- ❑ **Does Not Require Uncoated Lead Threads:** ND Epoxy-Lock is a soft, pliable material that will not cause or contribute to cross threading.
- ❑ **Exceptional Locking Power:** Extensive testing indicates that ND Epoxy-Lock provides two to four times greater breakaway torque than conventional "plastic" fastener locking devices.
- ❑ **Versatile:** ND Epoxy-Lock is compatible with all materials (even plastics) and most finishes.
- ❑ **Surpasses Industrial Fastener Institute Standards:** Epoxy-Lock meets or exceeds all torque requirements of IFI 125, IFI 525, as well as automotive adhesive-coated fastener performance specifications.
- ❑ **Long Shelf Life:** Once applied, ND Epoxy-Lock remains inert until a cure is activated by engagement with a mating thread.
- ❑ **Unaffected by Foreign Substances:** Oil, gasoline, salt-spray, acids, solvents, water, and air have virtually no effect on Epoxy-Lock after a final cure has been achieved. The cross-link molecular structure of Epoxy-Lock makes it solvent resistant.



### FEATURES CONTINUED:

- ❑ **Saves Money:** ND Epoxy-Lock is less expensive than applying bottled thread locking compounds at the point of assembly. Eliminates the need for costly lock-washers, cotter pins or castellated nuts.



**ND Epoxy-Lock meets or exceeds the performance requirements of the following specifications and/or standards:**

#### AUTOMOTIVE

- ❑ DaimlerChrysler PF-6616 & MS-CC-76
- ❑ Ford ES-20007-S100, ES-20010-S100, ESS-M11P24-A1 & ESS-M11P24-A2
- ❑ General Motors GM6175M & GM6194M

#### INDUSTRIAL FASTENER INSTITUTE

- ❑ IFI 125
- ❑ IFI 525

#### OEM

- ❑ Detroit Diesel 9S283; 80K15, ES15-230
- ❑ Delphi DX520402 & 520403
- ❑ Meritor Q-43, Q-29
- ❑ Caterpillar 1E2486
- ❑ Outboard Marine 1767

*For a complete list, contact ND INDUSTRIES.*