MECHANICAL LOCKING AND THREAD SEALING

NYLOK® BLUE™ NYLON PELLET & STRIP

 Prevailing Torque Locking Element

NYLOK® blue™ nylon pellet & strip is a self-locking element comprised of nylon permanently imbedded into the threads of a fastener. The pellet is a drilled hole with a plug of oversized nylon wedged into the hole. The strip is a milled slot with a string of oversized nylon wedged into the slot.

When the pellet & strip are engaged it creates a wedge between the fastener and mating part compressing the nylon and creating metal to metal contact opposite the element. This metal to metal contact results in a positive resistance to vibration and loosening. Since nylon has great memory characteristics, this locking element can be reused several times.

Technical Data – Pellet & Strip
• Color — blue/red
• Dry Wedge — immediate locking
• Temperature Range: -56°C (-70°F) to +121°C (+250°F)
• Shelf-Life indefinite
• Size — from M1.2 (#00-80) to anything larger

Pellet & Strip (Optional) Locking Element Materials
• Nylon
  -56°C (-70°F) to +121°C (+250°F)
• Kel-F® (optional) †
  -195°C (-320°F) to +177°C (+350°F)
• Teflon® (optional) ††
  -68°C (-90°F) to +288°C (+550°F)
• Vespel® (optional) ††
  -195°C (-320°F) to +288°C (+500°F)

Typical Performance Results
(M10 plain finish – IFI 524)
• Prevailing-On Torque 5.0–10.0 Nm
• First Removal Prevailing-Off Torque (without preload) min. 2.5–5.0 Nm
• Fifth Removal Prevailing-Off Torque min. 1.8–2.8 Nm

† 3M is a trademark of 3M Company used pursuant to license with Nylok LLC. †† Dupont and Teflon are trademarks of E. I. du Pont de Nemours and Company or its affiliates used pursuant to license with Nylok LLC.

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNYVATION™ services – the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

As a supply chain partner, Nylok products serve a global network of customers in a diverse range of industries – automotive, aerospace/defense, heavy machinery/truck, electronics, weaponry and specialty applications. Nylok solves fastener problems from NASA applications to the small home appliance industry, processing more than 10 billion parts per year – the global leader in fastener processing.
NYLOK® BLUE™ NYLON PELLET & STRIP
Prevailing Torque Locking Element

Advantages
- Reusable/adjustable
- Exceptional vibration resistance
- Resistant to lubricants, fuel, hydraulic fluids and most commercial solvents
- Can be applied to any size or thread configuration of a fastener
- Complies with or exceeds IFI, DIN and major OEM specifications
- Parts are ready for assembly
- Precise thread coverage in every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Environmentally friendly/non-toxic
- Torque can be adjusted to meet specific applications
- Can be applied to any fastener material (steel, plastic, brass, copper, aluminum)

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
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<td>PF S144</td>
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**NYLOK® BLUE PATCH TORQ-PATCH®**

**Prevailing Torque Locking Element**

NYLOK® blue patch TORQ-PATCH® is a self-locking element comprised of nylon permanently bonded onto the threads of a fastener. When the NYLOK® blue patch TORQ-PATCH® is engaged, it creates a wedge between the fastener and mating part compressing the nylon and creating metal to metal contact opposite the patch. This metal to metal contact results in a positive resistance to vibration and loosening. Since nylon has great memory characteristics, this locking element can be reused several times.

**Technical Data — NYLOK® Blue Patch TORQ-PATCH®**

- Color — blue/red (special colors available upon request)
- Dry Wedge — immediate locking
- Temperature Range -56°C (-70°F) to +121°C (+250°F)
- Shelf-Life indefinite
- NYLOK® blue patch is also referred to as TUF-LOK®

**Typical Performance Results (M10 plain finish – IFI 524)**

- Prevailing-On Torque 5.0 – 10.0 Nm
- First Removal Prevailing-Off Torque (without preload) min. 2.5 – 5.0 Nm
- Fifth Removal Prevailing-Off Torque min. 1.8 – 2.8 Nm

**Advantages**

- Reusable/adjustable
- Exceptional vibration resistance
- Resistant to lubricants, fuel, hydraulic fluids and most commercial solvents
- Can be applied to any size or thread configuration of a fastener
- Bonds to a broad range of fastener finishes

(continued)
NYLOK® BLUE PATCH TORQ-PATCH®
Prevailing Torque Locking Element

Advantages (continued)

• Complies with or exceeds IFI, DIN and major OEM specifications
• Provides a seal for threads
• Parts are ready for assembly
• Precise thread coverage on every part
• Can be applied on external and internal threaded fasteners
• Is not affected by high humidity conditions
• Environmentally friendly/non-toxic
• 180° (standard) or 360° (optional) radial coverage
• Torque can be adjusted to meet specific applications
• Cost effective
• No metal removal to reduce fastener strength or performance

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<td>JOHN DEERE</td>
<td>JDT905F</td>
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NYLOK® TORQ-PATCH® LOCKNUT

Prevailing Torque Locking Element

NYLOK® TORQ-PATCH® locknut is a self-locking element comprised of nylon permanently bonded into the threads of a nut. When the NYLOK® TORQ-PATCH® locknut is engaged it creates a wedge between the nut and mating part compressing the nylon and creating metal to metal contact opposite the patch. This metal to metal contact results in a positive resistance to vibration and loosening. Since nylon has great memory characteristics, this locking element can be reused several times.

Technical Data – NYLOK® TORQ-PATCH® Locknut
- Color — blue/red (special colors available upon request)
- Dry Wedge — immediate locking
- Temperature Range -56°C (-70°F) to +121°C (+250°F)
- Shelf-Life indefinite
- NYLOK® TORQ-PATCH® locknut is also referred to as TUF-LOK®

Typical Performance Results (M10 plain finish)
- Prevailing-On Torque 5.0 – 10.0 Nm
- First Removal Prevailing-Off Torque (without preload) min. 2.5 – 5.0 Nm
- Fifth Removal Prevailing-Off Torque min. 1.8 – 2.8 Nm

Advantages
- Reusable/adjustable
- Exceptional vibration resistance
- Resistant to lubricants, fuel, hydraulic fluids and most commercial solvents
- Can be applied to any size or thread configuration larger than a M6/1/4" nut
- Bonds to a broad range of fastener finishes

INNYVATION™

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNYVATION™ services – the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

As a supply chain partner, Nylok products serve a global network of customers in a diverse range of industries – automotive, aerospace/defense, heavy machinery/truck, electronics, weaponry and specialty applications. Nylok solves fastener problems from NASA applications to the small home appliance industry, processing more than 10 billion parts per year – the global leader in fastener processing.
NYLOK® TORQ-PATCH® LOCKNUT
Prevailing Torque Locking Element

Advantages (continued)
• Complies with or exceeds IFI, DIN and major OEM specifications
• Provides a seal for threads
• Parts are ready for assembly
• Precise thread coverage in every part
• Is not affected by high humidity conditions
• Environmentally friendly/non-toxic
• 180° (standard) or 360° (optional) radial coverage
• Torque can be adjusted to meet specific applications
• Cost effective
• No metal removal to reduce fastener strength or performance

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COMPANY NAME

FCA
FORD
GM
MILITARY
CATERPILLAR
IFI
NYTEMP®

Prevailing Torque High Temp Locking Patch

NYTEMP® self-locking patch is comprised of high temperature polymer permanently bonded onto the threads of a fastener. When the NYTEMP® patch is engaged, it creates a wedge between the fastener and mating part, compressing the polymer and creating metal to metal contact opposite the patch. This metal to metal contact results in a positive resistance to vibration and loosening. Since this polymer has great memory characteristics, the locking element can be reused several times.

Technical Data – NYTEMP® Patch
- Color – orange (special colors available upon request)
- Dry Wedge – immediate locking
- Temperature Range -50°C (-70°F) to +232°C (+450°F)
- Shelf-Life indefinite

Typical Performance Results (M10 plain finish – IFI 524)
- Prevailing-On Torque 5.0 – 10.0 Nm
- First Removal Prevailing-Off Torque (without preload) min. 2.5 – 5.0 Nm
- Fifth Removal Prevailing-Off Torque min. 1.8 – 2.8 Nm

Advantages
- Reusable/adjustable
- Exceptional vibration resistance; Meets MIL-STD 1312-Rev. 7
- Resistant to lubricants, fuel, hydraulic fluids and most commercial solvents
- Can be applied to any size or thread configuration of a fastener
- Bonds to a broad range of fastener finishes

INNYVATION™

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNYVATION™ services – the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

As a supply chain partner, Nylok products serve a global network of customers in a diverse range of industries – automotive, aerospace/defense, heavy machinery/truck, electronics, weaponry and specialty applications. Nylok solves fastener problems from NASA applications to the small home appliance industry, processing more than 10 billion parts per year – the global leader in fastener processing.
NYTEMP®
Prevailing Torque High Temp Locking Patch

Advantages (continued)

- Complies with or exceeds IFI, DIN, Military and major OEM specifications
- Provides a seal for threads
- Parts are ready for assembly
- Precise thread coverage in every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Environmentally friendly/non-toxic
- 180° (standard) or 360° (optional) radial coverage
- Torque can be adjusted to meet specific applications
- Cost effective
- No metal removal to reduce fastener strength or performance
- Meets NASA low out gassing requirements
- Reduces FOD and Creep in aerospace applications

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<tr>
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| GM           | GM6189P+High Temp  
              | GMW16722          |
| DETROIT DIESEL | TES-113         |
| MILITARY     | MIL - DTL - 18240F  
              | NASM25027         |
| NASA         | SP - R - 0022A   |
| IFI          | IFI - 100/107    
              | IFI - 124         
              | IFI - 155         
              | IFI - 524         
              | IFI - 555         |
| ANSI         | ANSI B.18.16.1M  |
NylokHD® Patch

NylokHD® Patch is a high performance self-locking nylon retention element permanently bonded onto the threads of a nut via a special application technique. NylokHD® Patch will provide greater reusability, and reduced torque scatter. When the patch is engaged, it creates a wedging action between the nut and mating part, compressing the nylon and promoting tight metal-to-metal contact opposite the patch. This metal-to-metal contact provides a positive resistance to vibration and loosening. Since nylon has great memory characteristics, this locking element is reusable. NylokHD® Patch can be applied to nuts of any style or plating. A wide range of nut sizes can be processed.

Technical Data — NylokHD® Patch
- Color — blue / orange (special colors available upon request)
- Dry Wedge — immediate locking (no cure time)
- Standard Temperature Range — -56°C (-70°F) to 121°C (250°F)
- NytempHD® High Temperature Range — -56°C (-70°F) to 232°C (450°F)
- Shelf-Life indefinite

Advantages
- Allows the use of a shorter nut and bolt, providing lighter assemblies
- Can be used with a mid-range of plating and metals, eliminating the need for cadmium
- Usable on any grade or style of nut
- Meets prevailing torque requirements of IFI 100/107, NASM 25027 and unique OEM requirements
- Ideal for aerospace and commercial vehicle industry where weight is critical
- Exceptional vibration resistance
- Highly reusable
- Re-adjustable after original installation
- Wide variety of patch coverages available
- Environmentally friendly, non-toxic
- Torque values can be customized to meet your requirements (continued)
NylokHD® Patch

Advantages (continued)

• Does not damage finish on mating parts
• Resistant to most lubricants, fuels, hydraulic fluids and commercial solvents
• No metal removal to reduce fastener strength or performance

TYPICAL TORQUE PERFORMANCE RESULTS (M16) NM

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<th>LOCKING TYPE</th>
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PRECOTE® 30
Medium Strength Thread Locker

Advantages (continued)

- Precise thread coverage in every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Dry-to-touch and tack free with good adherence

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                  | NASM25027      |
| NASA              | SP - R - 0022A |
| Caterpillar       | IE2486A        |
| IFI               | IFI - 125      |
|                  | IFI - 156      |
|                  | IFI - 160      |
|                  | IFI - 525      |
| BMW               | DIN 267 Part 27|
| Bobcat           | MS119          |
| Burman & Sons    | QC/1007        |
| Land Rover       | RES.22.FP.01   |
| National NBC     | A 2958         |
| Perkins Diesel   | PMS 11.02      |
| VW               | 601 05         |

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A Marmon/Berkshire Hathaway Company
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**CHEMICAL ADHESIVE FOR THREAD LOCKING AND SEALING**

**PRECOTE® 80**

**High Strength / Heat Resistant Thread Locker**

PRECOTE® 80 are varnish-like, solvent free coating systems based on micro-encapsulated acrylates for sealing and locking of threaded parts. The dried film is tack-free, non sticky and can be used in all kind of assembly procedures. Its characteristics as a locking and sealing element become effective only when the capsules are ruptured by shear and pressure stress and the adhesive is allowed to cure.

**Technical Data — PRECOTE® 80**
- Color — pink (special colors available upon request)
- Thread Friction Value > 0.25
- Curing Time (RT) 8 hours (an additive of "-3" will reduce to 2 hours)
- Temperature Range: -60°C (-76°F) to +170°C (+338°F)
- Shelf-Life 4 years at room temperature
- For small thread crest (less than 1 mm an additive of "-8" can be added to increased performance)

**Typical Performance Results (M10 plain finish)**
- Prevailing-On Torque 1.0 – 1.8 Nm
- Breakaway Torque (without preload BAT) min. 20.0 – 30.0 Nm
- Prevailing-Off Torque min. 4.0 – 8.0 Nm

**Advantages**
- Fixtures in about 10 minutes and full cures in 8 hours
- High – torque performance
- Environmental resistance to heat, automotive fluids, thermal and mechanical shock and vibrations
- Bonds to a broad range of fastener finishes
- Penetrates oil coatings
- Longest shelf - life in the industry
- Compiles or exceeds IFI, DIN and major OEM specifications
- Seals against pressures up to 400 bar (5760psi)

(continued)
## Precote® 80
### High Strength / Heat Resistant Thread Locker

**Advantages (continued)**
- Parts are ready for assembly
- Precise thread coverage in every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Dry-to-touch and tack free with good adherence

### COMPANY NAME | SPECIFICATIONS
--- | ---
Audi | DIN 267 Part 27
Bendix | BW - 291 P
BL BLS | 22.FP01
BMW | DIN 267 Part 27
Bosch | N38A SR9.3 and N38A SR9.5
British Leyland | BLS 22. FP01
DIN | DIN 267 Part 27
FCA | MS-CC76 A+C
FPW.80104 | MCSD7 PF-6616 Fiat
Ford | ES 20007- S 100
 | WX 200 WSS M11 P45-A1
GM / Opel | GME 00151 and GM 6124M
 | GM 6175 M
 | GM 6193 M
 | GM 6194 M
IFI | IFI 125
 | IFI 525
KHD | H 2812
Magneti Marelli | CQ N° 137
MIL - S - 46163 | 
PSA (Peugeot, Citroen, Talbot) | B14 1235
Renault | 39.02.010
Rockwell International | Q - 52
Rover | RES. 22.FP01
Saab Scania | STD - 1627 (1508446 SB)
Volvo | STD 416 - 0001
 | material number 391285
VW | DIN 267 Part 27
 | 601 05

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ISO 9001:2015

nylok.com
**CHEMICAL ADHESIVE FOR THREAD LOCKING AND SEALING**

**PRECOTE® 85**

**High-Strength & Heat-Resistant Thread Coating with Controlled Torque / Tension**

PRECOTE® 85 are varnish-like, solvent free coating systems based on microencapsulated acrylics for sealing and locking of threaded parts. The dried film is tack-free, non sticky and can be used in all kind of assembly procedures. Its characteristics as a locking and sealing element become effective only when the capsules are ruptured by shear and pressure stress and the adhesive is allowed to cure.

### Technical Data — PRECOTE® 85
- Color — turquoise (special colors available upon request)
- Thread Friction Value > 0.10 – 0.15
- Curing Time (RT) 8 hours (an additive of “-3” will reduce to 2 hours)
- Temperature Range: -50°C (-58°F) to +170°C (+338°F)
- Shelf-Life 4 years at room temperature
- For small thread crest (less than 1 mm an additive of “-8” can be added to increased performance)

### Typical Performance Results (M10 plain finish)
- Prevailing-On Torque 0.5 – 0.9 Nm
- Breakaway Torque (without preload BAT) min. 20.0 – 30.0 Nm
- Prevailing-Off Torque min. 4.0 – 8.0 Nm

### Advantages
- Curing begins in about 10 minutes with full locking in 8 hours
- Controlled friction to improve joint tension
- Epoxy chemistry for robust structural bonding performance
- High–torque performance
- Environmental resistance to heat, automotive fluids, thermal and mechanical shock and vibrations
- Bonds to a broad range of fastener finishes
- Longest shelf life in the industry
- Compiles with or exceeds major OEM specifications
- Seals against pressures up to 400 bar (5760psi)
- Parts are ready for assembly (continued)

**INNYVATION™**

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNYVATION™ services – the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

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nylok.com  586.786.0100
PRECOTE® 85
High-Strength & Heat-Resistant Thread Coating with Controlled Torque / Tension

Advantages (continued)

- Precise thread coverage in every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Dry-to-touch and tack free with good adherence

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NYSEAL®

Under-the-Head Sealant (Resistant To Automotive Fluids)

NYSEAL® creates a gasket-type seal, preventing leakage of fluids and gases under pressure. The coating is permanently fused on the bearing surface of the fastener. As the screw is seated to its final position against the mating part, the NYSEAL® element compresses slightly and fills the void between the bearing surface of the head and the counter sink/counter bore.

Technical Data — NYSEAL®
- Color — green (special colors available upon request)
- Resistant to most chemicals: alcohol, gasoline, oil, kerosene, diesel fuel and hydraulic fluids
- Temperature Range: -40°C (-40°F) to +66°C (+150°F)
- Can be applied to virtually any headed fastener
- Shelf-Life indefinite

Typical Performance Results (M10 plain finish)
- Seals up to 500psi

Advantages
- Eliminates time-consuming, in-house applications of O-rings, gasket seals and sealant compounds
- Permanently bonded to the bearing surface
- Eliminates the leak path
- Prevents galvanic corrosion between dissimilar materials
- Reusable
- Highly durable
- Will not shrink or dry out from age
- Screw strength is unaffected
- Assembly ready

INNYVATION™

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNYVATION™ services – the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

As a supply chain partner, Nylok products serve a global network of customers in a diverse range of industries – automotive, aerospace/defense, heavy machinery/truck, electronics, weaponry and specialty applications. Nylok solves fastener problems from NASA applications to the small home appliance industry, processing more than 10 billion parts per year – the global leader in fastener processing.
NYSEAL®
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NYPLAS®

Under-the-Head Sealant (Water, Dust, Air & Noise)

NYPLAS® sealant is a plastisol material, pre-applied coating under the heads of a variety of fasteners to provide sealing against water, moisture, dust, air and noise dampening.

Technical Data — NYPLAS®
- Color — black
- Temperature Range: -40°C (-40°F) to +150°C (+300°F)
- Can be applied to virtually any headed fastener
- Shelf-Life indefinite

Typical Performance Results (M10 plain finish)
- Seals up to 500psi

Advantages
- Seals/dampens immediately upon assembly
- No secondary material required
- Eliminates the need for O-rings, gasket seals and sealant compounds
- Eliminates leak path
- Reusable
- Non-toxic, assembler friendly
- Will not shrink or dry out with age
- Meets major OEM specifications

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NYLOK®
**PRECOTE® 200**

Under-the-Head Sealant / High Temp / Non-Crazing

PRECOTE® 200 is a highly resilient under-the-head sealant with good adhesion to seal the mating surfaces of screws, plugs, and rivets. The coating is completely dry and non-tacky. The sealing performance is obtained immediately after assembly.

**Technical Data — PRECOTE® 200**
- Color — blue
- Temperature Range: -40°C (-40°F) to +100°C (+212°F)
- Hardness, Shore A — 50-65
- Tensile Strength — 1.49MPa
- Elongation — 210%
- Shelf-Life 4 years at room temperature

**Typical Performance Results (M10 plain finish)**
- Seals up to 500psi

**Advantages**
- Dry and tack free coating
- Can be applied to virtually any headed fastener
- Captive sealing part
- Eliminates the need for O-rings and gasket seals
- Good resistance against water based fluids
- Reusable at room temperature
- Environmentally friendly/non-toxic
- Does not create spider cracks in lens covers

---

**INNVATION™**

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# PRECOTE® 200

**Under-the-Head Sealant / High Temp / Non-Crazing**

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**PRECOTE® 5**
Coating for Sealing

PRECOTE® 5 is a nonreactive coating used for immediate sealing of cylindrical and conical threads. The coating is dry, tack-free, with good adherence and can be used in all kinds of assembly procedures.

**Technical Data - PRECOTE® 5**
- Color — white
- Instantaneous High Pressure Seal
- Temperature
  - Air: -60°C to +160°C (-76°F to +356°F)
  - Motor Oil: +150°C (+302°F)
  - Gear Oil: +150°C (+302°F)
  - Glycol / Water 50/50: +120°C (+248°F)
  - Tap water: +100°C (+212°F)
  - Brake Fluid: +150°C (+302°F)
  - Diesel (without RME): room temperature
- Shelf-Life 4 years at room temperature

**Typical Performance Results (M10 plain finish)**
- Prevailing-On Torque (POT) 2.0 – 3.5 Nm
- Sealing Properties
  - Straight / Straight: <15 bar (216psi)
  - Taper / Straight: >50 bar (720psi)

**Advantages**
- Complies with or exceeds major OEM specifications
- Parts are ready for assembly
- Precise thread coverage in every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Dry-to-touch and tack free with good adherence
- Thread friction values are not altered
- Environmentally friendly/non-toxic
- Good thermal and chemical resistance

**INNYVATION™**
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## PRECOTE® 5
Coating for Sealing

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sales@nylok.com
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  nylok.com

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  +52 (81) 4162 4990
  ISO 9001:2015
  nylok.com

---

NYLOK is a Marmon/Berkshire Hathaway Company

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**COMPANY NAME**
**SPECIFICATIONS**

- **FIAT**
  FPW.80104

- **FORD**
  ESE M4G208-A2
  WX 201 WSS M18 P 12-A

- **GM / OPEL**
  9985490

- **GM**
  9985473

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  PMS P1_04

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- **RENAULT**
  39.02.010 CATEGORY 1 E

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  STD - 518 447 (814282)
  STD - 1489 (1351 893 SB)

- **VOLVO**
  STD 1262.2
  MATERIAL NUMBER 96220
**NYSTAY®**

External Temporary Retention Coating

NYSTAY® customized fastener retention solution allows the fastener to be held in place during production and transport without affecting the end assembly. NYSTAY® retention coating eliminates parts and process steps which allows for faster assembly.

**Technical Data – NYSTAY®**
- Color — green (special colors available upon request)
- Temperature Range -40°C (-40°F) to +66°C (+150°F)
- Shelf-Life indefinite

**Advantages**
- Reusable
- Environmentally friendly/non-toxic
- Can be applied to various metals
- Resistant to lubricants, fuels, hydraulic fluids and most commercial solvents
- Durable
- Can be applied to both threaded and unthreaded fasteners
- Temporarily holds fastener in place during fabrication, assembly and transportation
- Soft enough to allow hand assembly
- Provides a solution for robotic riveting type production
- Can be located at any point on fastener length
- Speeds assembly time
- Reduces Inventory
- Increases quality control
- Requires no additional features

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**NYSTAY®**

External Temporary Retention Coating

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nylok.com
NYCOTE® PLUS / NYCOTE®

Thread Masking

NYCOTE® PLUS / NYCOTE® will prevent the adhesion of weld spatter and electrodeposited water-based liquid primers.

Technical Data – NYCOTE® PLUS / NYCOTE®

- Non-Conductive
- Can be applied to virtually any fastener to add lubricity and reduce torque versus tension scatter.
- Shelf-Life indefinite

Typical Performance Results (M10 plain finish)

- Free Drive Torque 0.1 – 1.5 Nm
- Seating Torque 40 Nm
- Torque Tension 16 – 36 kN

Advantages

- Eliminates the need for “slave” bolts
- Eliminates re-tapping which can compromise quality and safety
- Prevents the adhesion of electrodeposited water-based liquid primers and coatings
- Prevents adhesion of weld spatter
- Reduces torque vs. tension scatter
- Improves lubricity and reduces installation drive friction
- Can be coated to external or internal threaded fasteners

INNYVATION™

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NYCOTE® PLUS / NYCOTE®

Thread Masking

Advantages (continued)

• Achieves known and repeatable clamp load
• Guarantees good electrical grounding
• Reduces manufacturing cost by increasing productivity
• Coating is only on the threads — not grip length or faces

NYCOTE® PLUS

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**NYTORQ®**

**Pre-Applied Thread Lubricant**

NYTORQ® lubricant film-forming synthetic wax lubricant coats threaded parts. NYTORQ® lubricant reduces friction and prevents cold welding and can be used in a wide variety of industrial and manufacturing applications. It is also specially designed for self-tapping threads. The film is dry-to-touch. NYTORQ® lubricant prevents torque chattering and galling and enables high clamp loads in a small deviation.

**Technical Data — NYTORQ® Lubricant**

- Color — opaque
- Thread Friction Value 0.06 - 0.15
- Temperature Range: -70°C (-94°F) to +120°C (+248°F)
- Density — 1.0
- Solvent — Water
- Shelf-Life 4 years at room temperature

**Typical Performance Results (M10 plain finish)**

- Prevailing-On Torque < 20 Nm

**Advantages**

- Forms a dry-to-touch film
- Environmentally friendly/non-toxic
- Optimal friction values with low deviation
- Avoids galling, torque chattering and cold welding
- Can be applied on all threaded materials including plastics
- Outstanding reduction of thread forming torque
- Complies or exceeds industry specifications

NYTORQ is a trademark of Omnitechnik, Mikroverkapselungs GmbH..
**NYTORQ®**

Pre-Applied Thread Lubricant

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ISO 9001:2015
nylok.com
NYPLATE®

Pre-Applied Thread Anti-Seize

NYPLATE® coating is a film-forming dispersion with mineral solid lubricants for coating threaded parts requiring a high preload on assembly without galling but after exposure to high temperature permit an easy and non-destructive disassembly.

Technical Data — NYPLATE®
- Color — black
- Thread Friction Value 0.10 - 0.15
- Temperature Range: -60°C (-76°F) to +850°C (1560°F)
- Shelf-Life 4 years at room temperature

Adantages
- Ideal for preventing galling on stainless steel fasteners
- Forms a dry-to-touch film
- Environmentally friendly/non-toxic
- Best thread friction values in the industry with low deviation
- Very high maximum temperature resistance (850°C /1560°F)
- Avoids galling, torque chattering and cold welding
- Resistant to lubricants, fuels, hydraulic fluids and most commercial solvents
- Avoids corrosion in the threaded connection
- Can be applied on all threaded materials including plastics
- Outstanding reduction of thread forming installation torque

Typical Performance Results (M10 plain finish)
- Prevailing-On Torque (POT) 1.0 – 2.0 Nm

INNYVATION™

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNYVATION™ services — the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

As a supply chain partner, Nylok products serve a global network of customers in a diverse range of industries – automotive, aerospace/defense, heavy machinery/truck, electronics, weaponry and specialty applications. Nylok solves fastener problems from NASA applications to the small home appliance industry, processing more than 10 billion parts per year – the global leader in fastener processing.
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FOR OVER 70 YEARS, NYLOK® HAS BEEN RECOGNIZED AS A LEADING GLOBAL SUPPLIER OF VALUE-ADDED FASTENER COATINGS, WITH SALES AND LICENSEES WORLDWIDE. ENGINEERING INNOVATIVE AND WORKABLE SOLUTIONS TO SPECIFIC FASTENER ISSUES HAS BEEN AND WILL CONTINUE TO BE NYLOK’S PRIMARY MISSION.
OVERVIEW

- NYSHIELD™ PROTECTS STEEL FASTENERS FROM GALVANIC CORROSION IN HIGH RISK MATERIAL COMBINATIONS:
  - CARBON FIBER
  - MAGNESIUM
  - ALUMINUM
  - STAINLESS STEEL

- LOW TENSION LOSS
- COF BETWEEN 0.10 - 0.16
- UNIFORM THICKNESS
- EXCELLENT ADHESION
- EXCEPTIONAL CHEMICAL RESISTANCE

CORROSION TEST RESULTS

STEEL FASTENERS ON CARBON FIBER - 15 YEAR SIMULATION

STEEL FASTENERS ON MAGNESIUM - 15 YEAR SIMULATION

FOR MORE INFORMATION:

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