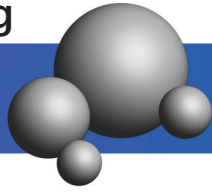


ND Hi-Temp Patch®

Locking & Sealing



PreApplied

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

QPL-Listed
Automotive Approved



ND
INDUSTRIES

DESCRIPTION:

- ❑ The ND Hi-Temp Patch coating process produces a completely dry product that is fused to the fastener and is ready to use right out of the box. ND Patch performs immediately upon assembly with no curing time required.
- ❑ ND Hi-Temp Patch maintains its torque performance through **temperatures as low as -70°F (-50°C) and as high as +500°F (+260°C)**.
- ❑ ND Hi-Temp Patch is generally applied to a minimum of 2-3 threads back from the end of the fastener with 4-6 threads of coverage to assure ease of starting the nut/bolt assembly.
- ❑ The ND Hi-Temp Patch can be applied to virtually any fastener, from very large construction bolts to tiny cellular phone and computer screws.
- ❑ How ND Hi-Temp Patch works: When a fastener coated with ND Hi-Temp Patch is mated to its corresponding hole or mating fastener, the material is compressed. This compression creates a dam-like action on the opposite side of the coated fastener creating very strong metal-to-metal contact. When ND Hi-Temp Patch is fully seated, it forms a positive lock that will not loosen, even under extreme vibration. This dam-like action also creates a positive seal to be used to prevent leakage.
- ❑ As with all of our **PreApplied** products, ND Industries can apply Hi-Temp Patch to your fasteners at any one of our regional service centers, or we can supply you with fasteners already coated with ND Hi-Temp Patch.

FEATURES:

- ❑ **Retains Full Strength:** ND Hi-Temp Patch process involves no drilling or milling, so there is no loss of the fastener's strength or hardness and no troublesome burrs or chips.
- ❑ **Saves Money:** ND Hi-Temp Patch saves money by eliminating the need for expensive lock washers, cotter pins, or castellated nuts. ND Hi-Temp Patch is also less expensive than applying bottled thread locking compounds at the point of assembly.
- ❑ **Saves Time:** ND Hi-Temp Patch can be automatically fed through standard bowl feeders without the fear of material coming off.



FEATURES CONTINUED:

- ❑ **Resists Heat & Cold:** ND Hi-Temp Patch is effective at temperatures from -70°F (-50°C) to +500°F (+260°C).

ND Hi-Temp Patch meets or exceeds the performance requirements of the following specifications and/or standards:

MILITARY

- ❑ MIL-DTL-18240F, MIL-N-25027

AUTOMOTIVE

- ❑ DaimlerChrysler PF-5144, PF-5461, PF-6157, PF-6158
- ❑ Ford ES-382101-S100, ES-378813-S100, ES-N800688-S100, WA970, ES-21002-S100
- ❑ General Motors GM 6189P

INDUSTRIAL FASTENER INSTITUTE

- ❑ IFI 124
- ❑ IFI 524
- ❑ DIN 267 Part 28

OEM

- ❑ John Deere JDT905
- ❑ Mack Trucks 3/6 AXS5, 10 AMS1
- ❑ FMC 126052
- ❑ Cummins Engine 16,512-05
- ❑ Meritor (Rockwell) Q-70

For a complete list, contact ND INDUSTRIES.

FEATURES CONTINUED:

- Chemical Resistant:** ND Hi-Temp Patch will not dry, shrink, or otherwise be effected when exposed to commercial solvents, alcohol, gasoline, oil, caustic soda, jet fuel, etc.
- Reusable:** Fasteners coated with ND Hi-Temp Patch can be re-used repeatedly without damage to the threads. ND Hi-Temp Patch is particularly resistant to deformation, which makes it ideal for repeated use.
- Saves Effort:** During the ND Hi-Temp Patch process, camera systems are used to verify the parts are coated exactly to customer's specifications. This often removes a secondary sorting operation at the end customer.
- Fast Turn-Around:** The ND Hi-Temp Patch process produces a complete, non-chemically reactive, ready to use product. The ND Hi-Temp Patch performs immediately upon assembly. There is no cure time required.
- Areas of Application:**
 - Automotive
 - Medical
 - Aerospace
 - Construction
 - Electronics
 - Military

SPECIFICATIONS:

- Primary usage Lock and Seal
- Reusability Up to 5 on-off cycles
- Material Reinforced Nylon
- Color Orange and Gray**
- Hardness Shore D (ASTM D2240) 70-80 Durometer
- Salt Spray Resistance (ASTM B117) 1000+ hours (X scribe)
- Taber Abrasion (ASTM D4060) 10-18 mg loss CS-10 wheel, 1000 g load, 1000 cycles
- Dielectric Strength (ASTM D149) 800-1200 volts/mil @ 10.0 mils
- Direct Impact Resistance . . (MPTM 0002) 160 in.* lbs. (@10.0 mils)

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** QPL-18240 & MIL-DTL-18240F requires gray nylon

Shelf Life: The on part shelf life is at least one year under ideal storage conditions (+4°C to +32°C, or +40°F to +90°F).

For more information on ND Hi-Temp Patch, or any of ND Industries' other quality fastening products, contact your nearest ND Service Center:

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

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