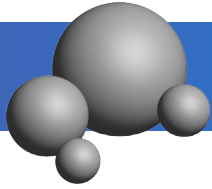


ND PATCH[®] HI-TEMP

Locking & Sealing



DESCRIPTION:

The ND Patch Hi-Temp coating process produces a completely dry product that is fused to the fastener and is ready to use right out of the box. ND Hi-Temp Patch performs immediately upon assembly with no curing time required.

ND Patch Hi-Temp maintains its torque performance through temperatures as low as -70°F (-50°C) and as high as +500°F (+260°C).

ND Patch Hi-Temp 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 Patch Hi-Temp can be applied to virtually any fastener, from very large construction bolts to tiny cellular

How ND Patch Hi-Temp works: When a fastener coated with ND Patch Hi-Temp 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 Patch Hi-Temp 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 products, ND Industries can apply ND Patch Hi-Temp to your fasteners at any one of our regional service centers, or we can supply you with fasteners already coated with ND Patch Hi-Temp.

FEATURES:

Retains Full Strength: ND Patch Hi-Temp 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 Patch Hi-Temp 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 Patch Hi-Temp can be automatically fed through standard bowl feeders without the fear of material coming off.

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



FEATURES CONTINUED:

Chemical Resistant: ND Patch Hi-Temp will not dry, shrink, or otherwise be effected when exposed to commercial solvents, alcohol, gasoline, oil, caustic soda, jet fuel, etc.

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

MILITARY:

- U.S. Military: MIL-N-25027, MIL-N-25027 MIL-F-18240E, MIL-DTL-18240F

AUTOMOTIVE:

- Chrysler: 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

AUTOMOTIVE:

- IFI: IFI 100, IFI 124, IFI 524
- DIN: DIN 267 Part 28

OEM:

- John Deere: JDT905
- Mack Trucks: 3/6 AXS5, 10 AMS1
- FMC: 126052
- Cummins Engine: 12,512-05
- Meritor (Rockwell): Q-70

For a complete list contact ND Industries.

FEATURES CONTINUED:

Reusable: Fasteners coated with ND Patch Hi-Temp can be re-used repeatedly without damage to the threads. ND Patch Hi-Temp is particularly resistant to deformation, which makes it ideal for repeated use.

Saves Effort: During the ND Patch Hi-Temp 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 Patch Hi-Temp process produces a complete, non-chemically reactive, ready to use product. The ND Patch Hi-Temp performs immediately upon assembly. There is no cure time required.

Areas of Application: Automotive, Medical, Aerospace, Construction, Electronics, Military and more.

SPECIFICATIONS:

Primary Usage	Lock and Seal
Reusability	Up to 15 on-off cycles
Material	Nylon 11
Color	Yellow (Other colors available upon request**)
Hardness	Shore D (ASTM D2240) 70-80 Durometer
Salt Spray Resisttance	(ASTM B117) 1000+ hours (X Scribe)
Taber Abrasion	(ASTM D4060) 10-18 mg loss CS-10 wheel, 1000g load , 1000 cycles. (Varies with color)
Dielectric Strength	(ASTM D149 short time) 800-1200 volts/mil @ 10.0 mils (Varies with color)
Direct Impact Resistance	(MPTM 0002) 160 in. lbs. @ 10.0 mils
Shelf Life	The on part shelf life is indefinite under ideal storage conditions [+40°F (+4°C) to +90°F (+32°C)], but recertification must occur once a year.

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

ND Patch Hi-Temp is a product of ND Industries, Inc., U.S.A.



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