PATCH FOR LOCKING & SEALING – PRE-APPLIED TO SEELSKREW® & SEELBOLT® SELF-SEALING FASTENERS

VIBRATION-DAMPENING ACTION ON THE THREAD SURFACE is achieved while still allowing repeated adjustment & reuse.

The APM Patch dry coating process is fused to the thread surface and delivered ready to be installed without the need for curing or any other special preparation. When assembled with a mating part the resilient engineered polymer (normally Nylon) Patch is compressed providing a locking action in the thread instead of at the bearing surface due to its vibration dampening characteristics. The resilience of the APM Patch holds the fastener in place without adhesives or thread distortion. Generally the Patch coating is applied 120° to 4-6 threads, starting 1-3 threads back form the end. Modified Patch location and coating length can be specified for specific applications.

FEATURES

- Patch provides excellent locking performance as well as increased sealing ability by completely filling the thread root with an elastic nylon dam.
- APM 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 by eliminating the need for costly lock washers, cotter pins, or castellated nuts. You get a close fit without the costs involved in obtaining close tolerances. And, applying the Patch is less expensive than applying bottled threadlocking compounds at the point of assembly.
- Resists heat and cold, and meets or exceeds IFI Specifications 124 & 524, as well as Military Specification MIL-DTL-18240F, Type P, for temperatures up to +250°F (up to +121°C).
- APM Patch will not dry, shrink, or lose resiliency when exposed to commercial solvents, alcohol, gasoline, oil, caustic soda, jet fuel, etc.
- The addition of the Patch greatly reduces the need for retightening. It can be reused repeatedly without damage to threads, and is particularly resistant to deformation.

SPECIFICATIONS

Primary Useage: 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 Resistance: (ASTM B117) 1000+ hours (X scribe)

Taber Abrasion: (ASTM D4060) 10-18 mg loss CS-10 wheel, 1000 g load, 1000 cycles (varies with color)

Dielectric Strength: (ASTM D149) 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 at least one year under ideal storage conditions (+4°C to +32°C, or +40°F to +90°F).

*QPL-18240 & MIL-DTL-18240F require yellow Nylon

HOW TO ORDER

Specify the head type, thread size, length, followed by the suffix – TP.