ND INDUSTRIES

Advanced Fastening and Sealing Technologies

PRE-APPLIED

THERMOLOC™ 1500

Thermoloc™ 1500 is a pre-applied process which creates a two stage self-locking fastener intended for use in high temperature systems up to 1562°F; where traditional organic threadlockers fail due to thermal oxidation. The process is compatible with internal or external threads, coated fasteners remain adjustable after assembly until a secondary heat cure takes place.

PRE-APPLIED PROCESS FEATURES

How It Works

Fasteners sent to ND Industries undergo a Thermoloc 1500 application process making them self-locking and self-sealing. They return back to customers dry to the touch and ready for installation.

Once installed into a mating part, but prior to heat curing, the coated fastener is secured but remains adjustable, making Thermoloc™ 1500 quite versatile. A permanent lock is then achieved by torquing the fastener to spec and exposing it to the recommended curing temperature (752°F) for two hours.

Hi-Temp Resistance

Most high temp chemical threadlockers fail around 450°F. Thermoloc™ 1500 maintains its torque performance through temperatures as low as -40°F and as high as +1562°F, once fully cured.

Resists Chemicals

Resists and seals against most automotive fluids. Oil, water, anti-freeze, and transmission fluid have virtually no effect on Thermoloc™ 1500 once the final cure has been achieved.

Exceptional Locking

Fast Fixture Times

Using steady pressure and standard hand tools, Thermoloc™ 1500 processed fasteners can be easily adjusted and removed until the proper cure temperature has been reached.

Adjustable

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Surpasses IFI Standards

Thermoloc™ 1500 meets or exceeds all torque requirements of IFI 125, IFI 525, as well as automotive adhesive coated fastener performance specifications.

CONTACT US

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PRE-APPLIED

THERMOLOC™ 1500

THERMOLOC APPLICATIONS

Engine Applications, Exhaust Applications, Transmissions, Furnace Bolts.

PRE-APPLIED BENEFITS

Saves Time: Fasteners coated with Thermoloc™1500 can be automatically fed through standard feeding devices – speeding up your process and improving productivity.

Saves Money: Pre-application of Thermoloc™1500 to fasteners is less expensive than hand applying bottled thread locking compounds at the point of assembly. It also eliminates the need for costly lock washers, cotter pins or castellated nuts.

Quality Control: Pre-Applied Thermoloc™1500 fasteners are coated to specification, ensuring consistent performance, unlike the variation from hand applying bottled products.

Reliability: Under most operating conditions, Thermoloc™1500 coated fasteners are unaffected by vibration or reversal of stress which greatly reduces the need to re-tighten fasteners.

PROCESSING NOTES

- Thermoloc™1500 has an on part life of 12 months. (When stored in a dry, cool environment.)
- Thermoloc™1500 is normally applied one to three threads back from the end of a fastener to assure ease of starting.
- It is recommended that Thermoloc™1500 fasteners not be reused.

PRE-APPLIED SERVICE

Step 1 - Material Selection: Our sales and R&D staff will help you find or custom formulate a material to meet your performance specifications.

Step 2 - Shipping: Once a selection has been made, have your fasteners shipped to one of our worldwide processing centers.

Step 3 - Processing: Utilizing custom, high-speed equipment, we apply the selected material to your exact specification.

Step 4 - Delivery: Once processing is complete, parts are shipped back ready for distribution or assembly.