

PR Preapplied Services
Pre-applied thread treatment

UNIT PROFILE | PRE-APPLIED THREAD TREATMENT | EST. 2022

PR Preapplied Services

Pre-applied threadlocking, sealing and functional coating solutions.
Automated application, controlled torque, assembly ready fasteners.
Authorised Indian partner and applicator for Technologic 3, Italy.

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THE UNIT

Pre-applied thread treatment

Started in 2022 under Mr. Gaurav Khurana, PR Preapplied Services is the authorised partner in India for Tecnologic 3 of Gorgonzola, Milan, whose water based pre-applied chemistry is used on fasteners worldwide. We apply threadlockers, thread sealants, anti-seize compounds, nylon locking patches and functional lubricants directly onto the component on automated lines here in Rohtak, so the fastener reaches your assembly line ready to install. These systems are specified by major OEMs including JCB, Piaggio and Renault for thread lock applications.

1 Cr+ Components pre-applied a month	4 Pre-applied systems on the line	11+ OEM approvals behind the chemistry	2022 Established as Tecnologic 3's partner in India
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THREADLOCKER SYSTEMS

Select the right locking performance

Pre-applied microencapsulated threadlockers keep their reactive components dormant until assembly. As the fastener is installed, the mating threads break the capsules, the adhesive system cures and a bonded locking interface forms in the thread. Nothing is dispensed at the station; the chemistry is already on the part.

Low strength

Controlled locking where easy disassembly still matters.

- Small fasteners
- Instrumentation
- Electrical components
- Light duty assemblies

Medium strength

General purpose vibration resistance.

- Automotive components
- Machinery
- Brackets
- General engineering fasteners

High strength

Higher resistance to loosening for critical joints.

- Automotive
- Heavy equipment
- High vibration assemblies
- Critical threaded joints

High temperature

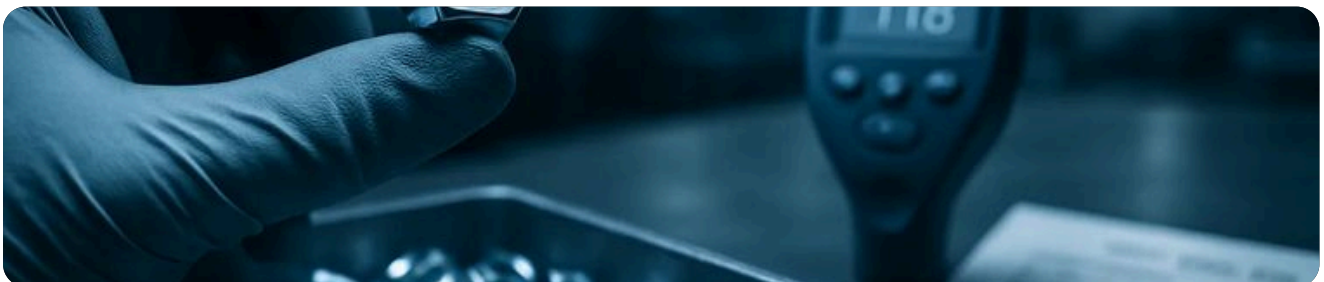
For assemblies that run hot.

- Engine compartments
- Exhaust related assemblies
- Heavy duty machinery

Beyond threadlocking

Applied on the same automated lines, each as a measured band on the thread or under the head.

- Pre-applied thread sealants. Lock the thread. Seal the joint.
- Under-head sealing. Seal where the thread cannot
- Nylon locking patch. Mechanical locking without adhesive
- Anti-seize and functional lubrication. Easy assembly, controlled friction, future disassembly



PROCESS

Automated application

01 Cleaning

Oil, dirt and surface contamination removed.

02 Surface preparation

The thread surface prepared for consistent bonding or functional coating.

03 Controlled application

The specified threadlocker, sealant, nylon patch, lubricant or anti-seize applied as a measured band.

04 Curing or setting

Controlled process conditions take the coating to its functional state.

05 Inspection

Application pattern, coverage and visual condition checked.

06 Torque testing

Breakaway and prevailing torque measured against the applicable specification.

07 Packing

Approved components packed and released for assembly.



ON THE FLOOR

The application line

MACHINE	RANGE OR SPEC	QTY
Screw Coater (Taiwan)	4 mm to 10 mm dia	1
Disc Coater (Indian)	4 mm to 10 mm dia	2
Induction Heater (Taiwan)	0 to 750 C heating	1
Box Oven (Indian)	0 to 300 C heating	1
Torque Meter (Syscon)	0 to 100 Nm	1
Vernier Calliper (Mitutoyo)	0 to 100 mm	2

AROUND THE PLANT



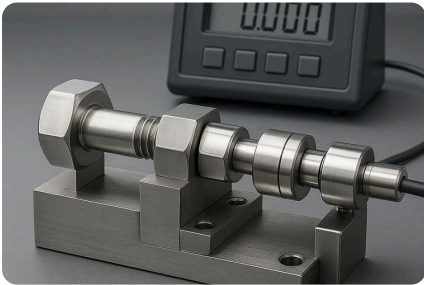
Automated application line



Thread locking patch applied



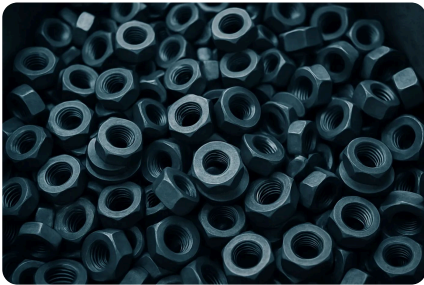
Surface preparation



Torque testing



Functional inspection



Packed, ready to assemble

EXPANSION

Coming in: nylon spray coating machine, two SPM flow coating lines, an SPM small screw coater and two vertical disc coaters.

QUALITY

Performance must be measured

- Breakaway torque: The torque required to initiate movement of the fastener.
- Prevailing torque: The resistance generated while the fastener continues to rotate.
- Application pattern: Verification of the treated thread area.
- Coating appearance: Visual inspection for consistent application.
- Batch traceability: Production and inspection records held against the batch.

Same fastener. Same application. Same performance.

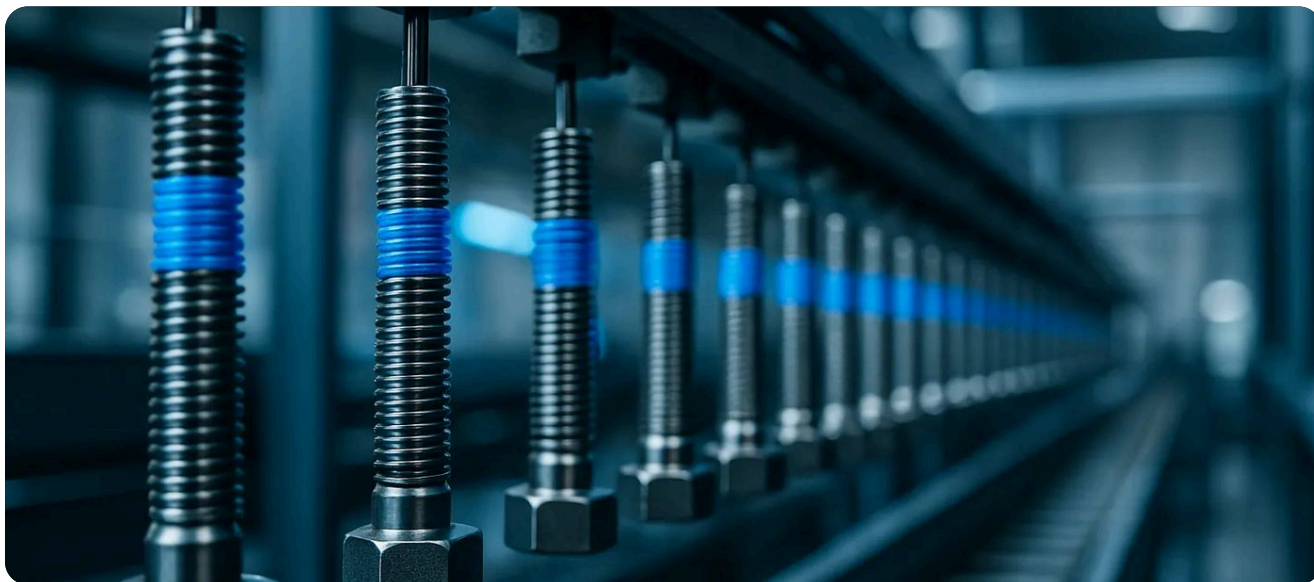
TESTING AND INSPECTION



Torque meter, 0 to 100 Nm · Syscon



Vernier calliper, 0 to 100 mm · Mitutoyo



CERTIFICATION

ROHS

APPLICATION AREAS

From fasteners to critical assemblies

Automotive

Engine components · Chassis · Brackets · Suspension · Brake systems · Sensors · Fluid connections

Commercial vehicles

Heavy duty fasteners · Chassis assemblies · Engine components · Hydraulic systems

Agricultural

Tractors · Implements · Hydraulic systems · Structural fasteners

Industrial

Pumps · Valves · Compressors · Machinery · Electrical equipment · General engineering

CONTACT

Works

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Send with an enquiry

- Fastener size, thread type and substrate
- Surface finish on the part
- Assembly, breakaway and prevailing torque
- Temperature and chemical exposure in service
- Sealing or reusability requirement
- Production quantity

THE LOCKING SYSTEM ARRIVES ON THE THREAD.

Global chemistry. Automated application. Controlled performance.

Send the fastener, the torque window and the joint conditions. Monday to Saturday, 9:30 to 18:30 IST.