

THREAD LOCK * THREAD LOCK * THREAD LOCK *
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ADHESIVE THREAD LOCK

Microencapsulation coatings are ideally suited as thread locks to prevent self-loosening of screw connections. These chemical thread-locking coatings are partially applied to the inside and outside of threads. Depending on the product used, they not only provide protection against unscrewing, but also ensure sealing against gases or fluids.

ADHESIVE THREAD LOCK

PROCESS FLOW

The locking products are applied to the threads all around and then left to dry. Tightening the screws activates the microencapsulation adhesive: the bursting of the capsules and the resulting mixing of adhesive and hardener triggers a chemical reaction (polymerisation) for curing. The material-locking connection reliably secures the threaded part against unscrewing and provides additional sealing. These locking systems are suitable for almost all materials used for threaded parts.

CHARACTERISTICS

- application temperature up to 170 °C
- fast start of reaction possible (from 20 minutes)
- different strengths achievable
- dry to touch and pourable after curing
- breakaway torque is reached once the adhesive has cured (24-hour standard)
- easy and quick assembly
- no additional locking elements required
- meets technical delivery requirements of the automotive industry and DIN EN ISO standards (DIN 267, Part 27)
- products used: Omnitechnik precote 30 / 80 / 85 / -8 / -3, 3M Scotchgrip 2353 / 2510, Loctite Driloc 2040 / 2045, and others



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