

# CHEMICAL ADHESIVE FOR THREAD LOCKING AND SEALING

## PRECOTE® 85

### High-Strength & Heat-Resistant Thread Coating with Controlled Torque / Tension

PRECOTE® 85 are varnish-like, solvent free coating systems based on microencapsulated acrylates for sealing and locking of threaded parts. The dried film is tack-free, non sticky and can be used in all kind of assembly procedures. Its characteristics as a locking and sealing element become effective only when the capsules are ruptured by shear and pressure stress and the adhesive is allowed to cure.



#### Technical Data — PRECOTE® 85

- Color — turquoise (special colors available upon request)
- Thread Friction Value > 0.10 – 0.15
- Curing Time (RT) 8 hours (an additive of “-3” will reduce to 2 hours)
- Temperature Range: -50°C (-58°F) to +170°C (+338°F)
- Shelf-Life 4 years at room temperature
- For small thread crest (less than 1 mm an additive of “-8” can be added to increased performance)

#### Typical Performance Results (M10 plain finish)

- Prevailing-On Torque 0.5 – 0.9 Nm
- Breakaway Torque (without preload BAT) min. 20.0 – 30.0 Nm
- Prevailing-Off Torque min. 4.0 – 8.0 Nm

#### Advantages

- Curing begins in about 10 minutes with full locking in 8 hours
- Controlled friction to improve joint tension

- Epoxy chemistry for robust structural bonding performance
- High-torque performance
- Environmental resistance to heat, automotive fluids, thermal and mechanical shock and vibrations
- Bonds to a broad range of fastener finishes
- Longest shelf life in the industry
- Complies with or exceeds major OEM specifications
- Seals against pressures up to 400 bar (5760psi)
- Parts are ready for assembly  
(continued)

PRECOTE® 85 is a trademark of Omnitechnik, Mikroverkapselungs GmbH

## INNOVATION™

Every fastening task comes with its own set of challenges – locking, sealing, high temperatures, thread contamination or any combination of these. When these challenges slow product development of the design process, Nylok engineers provide INNOVATION™ services – the knowledge and resources to uncover solutions that balance cost, manufacturability and environmental concerns.

As a supply chain partner, Nylok products serve a global network of customers in a diverse range of industries – automotive, aerospace/defense, heavy machinery/truck, electronics, weaponry and specialty applications. Nylok solves fastener problems from NASA applications to the small home appliance industry, processing more than 10 billion parts per year – the global leader in fastener processing.





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### Advantages (continued)

- Precise thread coverage in every part
- Can be applied on external and internal threaded fasteners
- Is not affected by high humidity conditions
- Dry-to-touch and tack free with good adherence

COMPANY NAME	SPECIFICATIONS
AUDI	DIN 26 PART 27
BENDIX	BW - 621 - M
BMW	DIN 267 PART 27
BOSCH	N38A SR9.5
CATERPILLAR	1E2486
DAF	PROD 9281
DAIMLER	DBL 9460
DIN	DIN 267 PART 27
FCA	MS-CC76 A, B, C
FIAT	DT-M-SFA-SSM
FORD	ES 20007- S 100
GM / OPEL	GME 00151 AND GM 6124M GM 6175 M GM 6193 M GM 6194 M GMW14657 A/B/C
IFI	IFI 125 IFI 525
MAN	222
MIL - S - 46163	
PORSCHE	1230
PSA (PEUGEOT, CITROEN, TALBOT)	B14 1235
RENAULT	39.02.010 CATEGORY 3 E+LS
VOLVO	STD 416 - 0001
VW	DIN 267 PART 27



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