precote 85

precote 85-3, precote 85-8

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

Description

precote 85, precote 85-3 and precote 85-8 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.

Application

All versions of precote 85 are high strength thread locking coatings with controlled friction and a locking effect even at high temperatures. They can be used on all types of external and internal threads.

- precote 85: Thread locker for threads > M6 or pitches > 1mm.
- precote 85-3: Recommended for accelerated curing for threads > M6 or pitches > 1mm.
  Yellow UV marker visible under UV light.
- precote 85-8: Recommended thread locker for threads ≤ M6 or pitches ≤ 1mm.
  White UV marker visible under UV light.
- precote 85-3-8: Recommended for accelerated curing for threads ≤ M6 or pitches ≤ 1mm.
  White UV marker visible under UV light.

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Properties

- precote 85 and precote 85-8 exceed the required values of DIN 267-27 after 6 hours curing at RT. Fast curing precote 85-3 exceeds these values after 30 minutes.
- Low, controlled thread friction
- Temperature range up to +170°C (+340°F) (DIN 267-27), resp. +200°C (+390°F) (GMW 14657).
- Sealing up to 400 bar (5760 psi).
- Good chemical and temperature resistance.
- Forms a dry and tack free film.
- Captive part of the thread.
- No post-curing even after repeated temperature exposure.
- Easy disassembling after BLT or BAT.
- Prevents corrosion in the threaded connection.

Technical data

Chemical Type	Acrylate
Color	turquoise
Thread friction μ_{Thread}	0,10 - 0,15
Curing time* at RT to exceed the values according to DIN 267-27	precote 85: 6h precote 85-8: 6h precote 85-3: 0,5h
Prevailing-in torque PIT on assembly*	< 1,4 Nm
Strength without preload BAT*	> 20 Nm
Strength with preload BLT*	> 1,2 x M_A
Prevailing-out torque POT according to DIN 267-27	< 55 Nm
Temperature range according to DIN 267-27 Temperature range according to GMW 14657	-60°C to +170°C -75°F to +340°F -60°C to +200°C -75°F to +390°F
Good chemical resistance: meets or exceeds the relevant automotive specifications and DIN 267-27	

*All values apply to screws M10 ISO 4017-8.8 plain finish and nuts M10 ISO 4032-10 plain finish, all other thread sizes comply with DIN 267-27. All other surfaces have also to be tested according to DIN 267-27 Annex A.

Shelf-life 4 years at max.30°C and max. 65% relative humidity
Storage and transport conditions can be taken from the omniTECHNIK packaging information.

Releases

precote 85

• Audi	DIN 267-27
• Bendix	BW - 621 - M
• BMW	DIN 267-27
• Bosch	N38A SR9.5
• Caterpillar	1E2486
• Chrysler	MS-CC76 A, B, C
• DAF	PROD 9281
• Daimler	DBL 9460
• DIN	DIN 267-27
• Fiat	DT-M-SFA-SSM
• Ford	ES 20007- S 100
• GM / Opel	GME 00151 and GM 6124M
• GM / Opel	GM 6175 M
• GM / Opel	GM 6193 M
• GM / Opel	GM 6194 M
• GM / Opel	GMW14657 A/B/C
• IFI	IFI 125
• IFI	IFI 525
• MAN	222
• MIL - S - 46163	
• Porsche	1230
• PSA (Peugeot, Citroen, Talbot)	B141 235 E+LS
• Renault	39.02.010 category 3 E+LS
• Volvo	STD 416 - 0001
• VW	DIN 267-27

precote 85-3

• GM / Opel	GME 00151 and GM 6124M

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