precote 30

precote 30-3, precote 30-8

Middle-Strength Coating with Controlled Friction

Description

precote 30, precote 30-3 and precote 30-8 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, particularly for series production.
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 30 are middle strength thread locking coatings with a high sealing effect. They can be used on all types of external and internal threads.

- precote 30: Thread locker for threads > M6 or pitches > 1mm.
- precote 30-3: Recommended for accelerated curing for threads > M6 or pitches > 1mm.
  Yellow UV marker visible under UV light.
- precote 30-8: Recommended for threads ≤ M6 or pitches ≤ 1mm.
  White UV marker visible under UV light.
- precote 30-3-8: Recommended for accelerated curing for threads ≤ M6 or pitches ≤ 1mm.
  White UV marker visible under UV light.

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Properties

- precote 30 and precote 30-8 exceed the required values of DIN 267-27 after 6 hours curing at RT. Fast curing precote 30-3 exceeds these values after 30 minutes.
- Constant assembly properties.
- Temperature range up to +150°C (+300°F).
- Low, controlled friction.
- Sealing up to 250 bar (3600 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.
- Prevents corrosion in the threaded connection.

Technical data

Chemical Type	Acrylate
Color	yellow
Thread friction μ_{Thread}	0,10 - 0,15
Curing time* at RT to exceed the values according to DIN 267-27	precote 30: 6h precote 30-8: 6h precote 30-3: 0,5h
Prevailing-in torque PIT on assembly*	< 1,0 Nm
Strength without preload BAT*	> 10 Nm
Strength with preload BLT*	> 1,1 x M_A
Prevailing-out torque POT according to DIN 267-27	< 55 Nm
Temperature range according to DIN 267-27	-60°C to +150°C -75°F to +300°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 30

• BMW	DIN 267-27
• Burman & Sons	QC - 1007
• Daimler	DBL 8830.10
• Fiat	DT-M-SFA-SSM
• National	NCB A 2958
• Perkins Diesel	PMS P1. 02
• PSA (Peugeot, Citroen, Talbot)	B141 235 E
• Renault	39.02.010 category 1 E
• Rover	RES. 22.FP.01
• VW	DIN 267-27

precote 30-3

• Toyota	TSK6709G-1B

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Note: As we do not know the specimen, dimensions, materials, combinations, surface conditions etc. of the threads in question, it is absolutely essential to run quality tests prior to general use to make sure about the required performance under field conditions. Our guarantee is confined to supplying precote in proper quality. In view of the fact that processing of precote by the coating partner and the application of precote coated parts are beyond our knowledge and influence we cannot guarantee for the quality of parts coated with precote and assemblies made thereof. We accept liability for the fitness of our products for particular purposes and liability for particular qualities of our products only in the event that we have accepted such liability in writing in the individual case. In any event any justified warranty claims shall be limited to the delivery of replacement goods which are free from defect or, in the event that such subsequent improvement fails, to reimbursement of the purchase price. Any and all further claims, in particular but without limitation any liability for consequential damage, shall be excluded.