

precote 30-3

Thread pre-coating with medium strength

Description

precote 30-3 is a varnish-like pre-coating system on base of microencapsulated acrylates for sealing and locking of threaded parts. The dried film is tack-free, solvent-free and physiologically harmless. Its characteristics as a sealing and locking element become effective only on assembly, when the capsules are ruptured by shear and/or pressure stress and the adhesive is allowed to cure. precote 30-3 is an accelerated curing version of the established precote 30.

Application

On all threaded combinations which mainly require a sealing effect. The product can be applied on screws, studs and non-standardized parts as well as on thread plugs and pipe threads. Due to the low strength an easy disassembly of the polymerised connection is possible. Maximum sealing strength is achieved within 2 hours at room temperature. No uncontrolled post curing occurs even after repeated temperature exposure.

For threads \leq M6 or pitch \leq 1mm we recommend precote 30-3-8.

Properties

- Dry and tack-free film.
- Captive part of the thread.
- Threaded parts can be preapplied long time before assembly (oT coating machine).
- Physiologically harmless as coating and on assembly.
- Thread friction values are not altered.
- Prevents fretting on assembly.
- Seals against pressure up to 250 bar (3600 psi).
- Avoids corrosion in the threaded connection.
- Fast curing, no postcuring even after repeated temperature exposure.
- Good chemical resistance (meets the relevant automotive specifications)

Technical Data - precote 30-3

colour	yellow / UV marker yellow
thread friction value μ_{thread}^*	0.10 - 0.15
curing time (RT)	2 h
prevailing-in torque PIT* on assembly	0.5 - 1 Nm
strength without preload BAT* oT-standard 2.7.1** resp. DIN 267, part 27	min. 8 Nm
strength ratio BLT/M _A * oT-standard 2.7.3** resp. DIN 267, part 27	< 1.1
prevailing-out torque POT	< BAT
temperature range	-60°C to +150°C
shelf-life	4 years at room temperature 27/65 DIN 50 014

*All values apply to screws M10 ISO 4017-8.8 plain finish and nuts M10 ISO 4032-10 plain finish

**oT-standards available on request.

04/11

Guarantee: 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.