

precote 80

High-Strength and Heat-Resistant Thread Pre-coating

Description

precote 80 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 locking and sealing element become effective only when the capsules are ruptured by shear and/or pressure stress and the adhesive is allowed to cure.

Application

On high-tensile threaded combinations which predominantly require a locking effect even at high temperatures. The product can be applied on screws, studs and non standardized parts as well as on thread plugs and pipe threads. Due to the high strength only a more difficult disassembly of the polymerised connection is possible. The required strength acc. DIN 267 part 27 is achieved within 6 hours at room temperature. No uncontrolled post-curing occurs even after repeated temperature exposure.

For threads \leq M6 or pitch 1mm \leq we recommend precote 80-8.

Properties

- Forms a dry and tack-free film.
- Captive part of the thread.
- Physiologically harmless as coating and as assembly.
- Threaded parts can be preapplied long time before assembly (oT coating machine).
- Seals against pressure up to 400 bar (5760 psi).
- Retains torque performance even at +170°C.
- Prevents corrosion in the threaded connection.
- Fast curing - no postcuring even after repeated temperature exposure.
- Thread friction must be considered on assembly.
- Good chemical resistance (meets the relevant automotive specifications).
- Complies with DIN 267, part 27.

Technical data - precote 80

colour	red / green
thread friction value μ_{thread}^*	> 0.25
curing time* (RT) (to achieve the values acc. DIN 267 part 27)	6 h
prevailing-in torque PIT* on assembly	1 – 1,8 Nm
strength without preload BAT* oT standard 2.7.1** resp. DIN 267, part 27	min. 20 Nm
strength ratio BLT/M _A * oT standard 2.7.3** resp. DIN 267, part 27	> 1.2
prevailing-out torque POT	< DIN 267part 27
temperature range	-60°C to +170°C
remaining strength after heat aging (2,000 h at +200°C)	100 %
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 comply with DIN 267, part 27.

** oT standards available on request.

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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.