precote 19-7

Clamp Coating with high Installation Torque and low Thread Friction

Description

precote 19-7 is a non-reactive coating used for immediate clamping of cylindrical threads. It contains PTFE for the adjustment of the thread friction. The coating is dry, tack-free and with good adherence.

Application

precote 19-7 is used as a coating for assembly components e.g., screws and studs in cylindrical/cylindrical pairing, where controlled and high initial installation torque for adjustment is needed. Furthermore precote 19-7 can be used as captive coating or transport lock.
The coating can be used in all kind of assembly procedures, particularly for serial production.
Areas of application are electronics, two wheel and automotive industry, household appliances, office machines, computer industry, electric motors, e-mobility, etc.

Properties

- Clamping immediately after assembly
- Low thread friction
- Constant assembly properties
- Forms a dry to the touch coating
- Can be applied to metallic and non-metallic surfaces
- Good chemical resistance
- Non-hazardous

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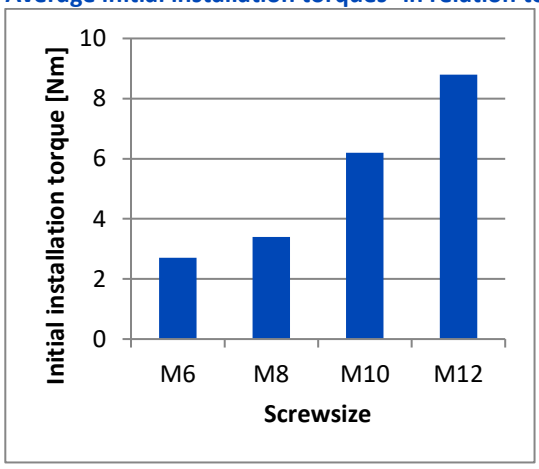
Technical data

Chemical Type	Acrylate
Color[1]	yellow
Thread friction value μ_{Thread}[2]	0,10 – 0,15
Initial installation torque[3,4]	6 - 11 Nm
Sealing properties at RT in air Threads cylindrical/cylindrical	Tested up to 15 bar
Maximum operation temperature in air with sealing properties[3]	-60°C to +150°C -75°F to +340°F

Chemical resistance tested according to all current automotive standards and DIN 267-28, storage time 1000h	**Test temperature**
Engine oil	160°C
Diesel	23°C
Anti-freeze 100%	120°C
Anti-freeze/Water 50:50	120°C
Automatic transmission oil	150°C
Transmission oil	120°C
Polyurea AdBlue®	23°C

[1] This product information is also valid for special colors. The specified color is not a primary product feature. The color may vary slightly due to the manufacturing process and the formulation. This does not affect the quality of the product.
[2] Test according to DIN EN ISO 16047. All values apply to screws ISO 4017 M10x55-8.8- plain finish and nuts ISO 4032 M10-10- plain finish. All other surfaces could deliver different values.
[3] All values apply to screws ISO 4017 M10x35-8.8- plain finish and nuts ISO 4032 M10-10- plain finish. All other surfaces could deliver different values.
[4] Test according to DIN 267-28.

Average initial installation torques[1] in relation to screwsize



[1] Test according to DIN 267-28.

Storage

Shelf-life of coated parts 4 years at max. 30°C and max. 65% relative humidity.
Please note the omniTECHNIK packaging information.

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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 control 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.