



precote Top 300

Coating for Thread Forming Screws

Description

precote Top 300 is a coating based on wax. It lowers the thread forming values during assembly, prevents stick slip as well as galling and enables higher clamp loads with equal tightening torque.

Application

precote Top 300 is specially developed for thread-forming screws. It is applied partially on the thread forming area. Depending on the thread size precote Top 300 is used in a dilution with a maximum of 1 part of water. 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

- Reduces thread-forming values
- Avoids stick slip and galling
- Temporary corrosion protection
- Constant assembly properties
- Partial coating
- Meets VDA coefficient of friction requirements
- Can be applied to metallic and non-metallic surfaces
- Non-hazardous
- Contains UV marker

Technical data

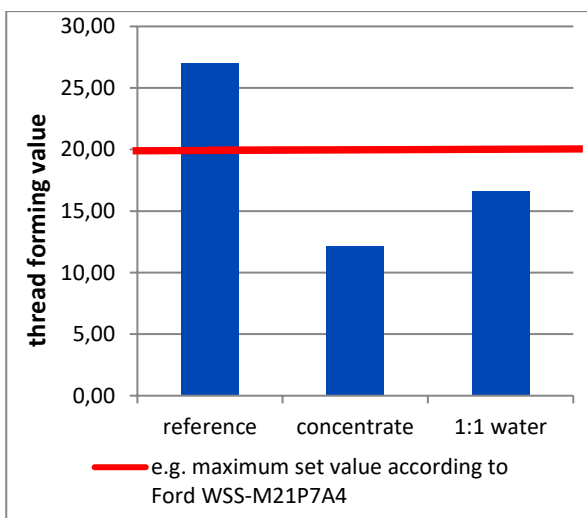
Chemical Type	Wax
Color ¹	yellow
Thread friction value ² μ_{Thread}	0,09 – 0,15 depending on dilution
Thread forming value ³ (e.g. Ford WSS-M21P27A4)	< 20 Nm

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

³ Thread forming value applies to screws M10 DIN 7500 galvanized blue passivated, and nuts M10 DIN 928 plain finish, different thread sizes in accordance with Ford WSSM21P27A4.

Effect of precote Top 300 on thread forming value³



precote Top 300 meets and exceeds technical specifications of following companies

Aisin, Audi, Autoliv, BASF, Bendix, BMW, Bosch, Bridgestone/Firestone, Brose, Chrysler, Continental, Cummins, DAF, Daimler, Dana, Delphi, Denso, Faurecia, Fiat, Ford, Geely, General Motors, Getrag, Hitachi, Honda, Hyundai Kia, Hyundai Mobis, Johnson Controls, KWC, Lear, Magna, Magneti Marelli, Mahle, MAN, Michelin, Opel, Panasonic (Matsushita Electric), Porsche, PSA, Renault, Rover, Saab Scania, Schaeffler, Siemens, Stihl, Tesla, Toyota, TRW Automotive, Valeo, Volvo, VW, ZF Friedrichshafen and many more

Storage

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

August 2019

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.