

precote Top 300

Technical Data Sheet



Coating for Thread Forming Screws.

DESCRIPTION

precote Top 300 is a coating based on wax. It lowers the thread-forming values (force) during assembly, prevents stick-slip (galling) and enables higher clamp loads to be obtained at a given tightening torque compared with fasteners that are untreated.



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 with a maximum dilution of one part water (50%).

The coating can be used in all kinds of assembly procedures, especially for volume production.

Areas of application include electronics, two-wheel vehicle, automotive, household appliances, office machines, computers, electric motors, e-mobility etc.

TECHNICAL DATA

Chemical Type	Wax
Colour ¹	Transparent / yellow with ultra-violet marker
Thread friction ² value (μ)	0.09 – 0.15
Standard patch length	8-10 threads
Thread forming value ³ (DIN 7500 / DIN EN ISO 7085)	<20 Nm

¹ This product information is also valid for special colours. The specified colour is not a product feature. The colour may vary slightly due to the manufacturing process and the formulation.

² All values apply to screws M10 ISO 4017-8.8 plain finish and nuts M10 ISO 40320-1D plain finish.

³ Thread-forming value applies to screws M10 DIN 7500 zinc plated, blue passivated and nuts M10 DIN 928 plain finish, tolerances in thread sizes in accordance with Ford WSS M21P27A4

CONFORMS TO

• Daimler	MS 9775
• Ford	WSS-M21P27 A4 (XD)
• General Motors	9986167
• JLR	STJLR 51 5392 A4 (XD)

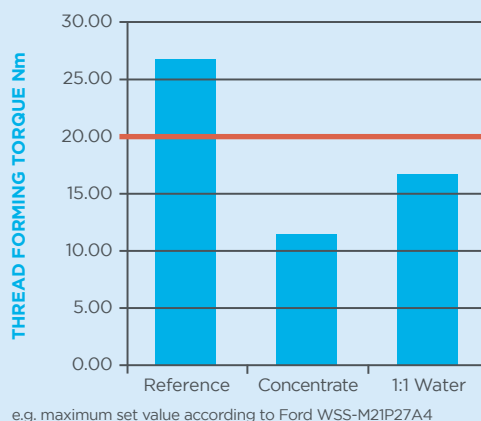
STORAGE

Shelf life of coated parts - four years at max. 30°C (86°F) and max. 65% relative humidity.

PROPERTIES

- Reduces thread-forming torque
- Prevents stick-slip and galling
- Temporary corrosion protection
- Consistent assembly properties
- Partial coatings
- Meets Verband der Automobilindustrie (VDA) coefficient of friction requirements
- Can be applied to metallic and non-metallic surfaces
- Non-hazardous
- Contains ultra-violet marker

EFFECT OF PRECOTE TOP 300 ON THREAD FORMING VALUES³



Information presented in this data sheet is considered reliable but conditions and methods of use, which are beyond our control, may modify results. Before these products are used, the user should confirm suitability.

We cannot accept liability for any loss, injury or damage which may result from its use to the full extent permitted by law.

We do not warranty the accuracy or completeness of any such information, whether orally or in writing.

We reserve the right at any time and without notice to update or improve products and processes and our information concerning the same.