



## precote Top 100

### Coating for Adjustment of Thread Friction with Temporary Corrosion Protection

#### Description

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precote Top 100 is a film-forming surface coating based on wax with temporary corrosion protection. It reduces underhead and thread friction during the assembly. precote Top 100 prevents stick-slip and fretting and higher clamping forces can be reached with similar tightening torques. The coating is dry and tack-free.

#### Application

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precote Top 100 is used as a coating for all types of threaded joints. precote Top 100 can be used as a partial coating or in a dip and spin process. Depending on requirements, precote Top 100 is processed in a dilution with 1 to a maximum of 5 parts 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

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- Defined coefficient of friction with low scattering
- Prevents stick-slip and fretting
- Temporary corrosion protection
- Constant assembly properties
- Partial or dip and spin coating possible
- Meets VDA coefficient of friction requirements
- Can be applied to metallic and non-metallic surfaces
- Non-hazardous
- Contains UV marker

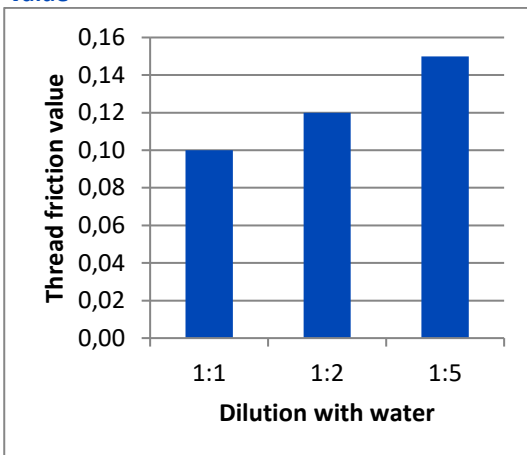
## Technical data

Chemical Type	Wax
Color <sup>1</sup>	transparent
Melting point	+130°C (+270°F)
Coefficient of friction $\mu_{\text{Thread}}^2$	0,09 – 0,15 Depending on dilution

<sup>1</sup> 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.

<sup>2</sup> All values apply to screws M10 ISO 4017-8.8 plain finish and nuts M10 ISO 4032-10 plain finish. All other surfaces could deliver different values.

### Effect of dilution with water on the thread friction value<sup>1</sup>



<sup>1</sup> All values apply to screws M10 ISO 4017-8.8 - plain finish and nuts M10 ISO 4032-10 - plain finish. All other surfaces could deliver different values.

## precote Top 100 meets and exceeds technical specifications of following companies

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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

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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.