

precote 85

Technical Data Sheet



precote 85-3, precote 85-8 High-Strength and Heat-Resistant Thread Coating with Controlled Friction.

DESCRIPTION

precote 85, precote 85-3 and precote 85-8 are varnish-like, solvent-free coating systems based on microencapsulated acrylates for locking of threaded parts. The dried film is tack-free and non-sticky. The microcapsules are destroyed by compressive and shear stress during assembly, and the released components mix and harden.



APPLICATION

All versions of precote 85 are high strength thread locking coatings with controlled friction and a locking effect even at high temperatures. They can be used on all types of external threads.

precote 85: for threads > M6 and pitches > 1mm

precote 85-3: accelerated curing for threads > M6
Yellow UV marker visible under UV light

precote 85-8: for threads ≤ M6 or
pitches ≤ 1mm to max. M10x1
White UV marker visible under UV light

The physical data and chemical resistance of precote 85-3 and precote 85-8 match with the data of the standard version precote 85 after complete curing.

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.

STORAGE

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

Please note the omniTECHNIK packaging information.

PROPERTIES

- precote 85 and precote 85-8 exceed the required values of DIN 267-27 after 6 hours curing at RT. Fast curing precote 85-3 exceeds these values after 30 minutes
- Controlled thread friction
- Constant assembly properties
- Temperature range up to +170°C (+340°F) (DIN 267-27), resp. +200°C (+390°F) (GMW 14657)
- Good chemical and temperature resistance
- Forms a dry and tack free film
- Captive part of the thread
- No post-curing even after repeated temperature exposure
- Easy disassembling after BLT or BAT
- Prevents corrosion in the threaded connection

ALL VERSIONS OF PRECOTE 85 MEET AND EXCEED TECHNICAL SPECIFICATIONS OF FOLLOWING COMPANIES

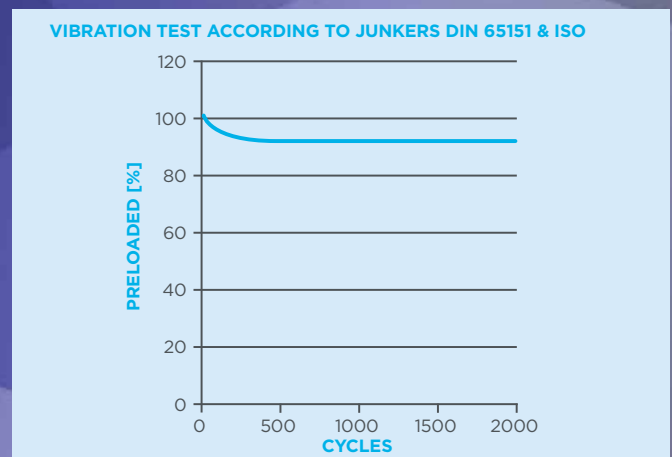
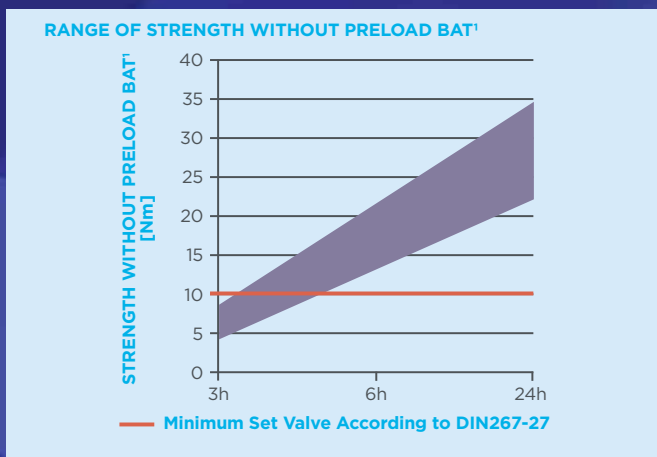
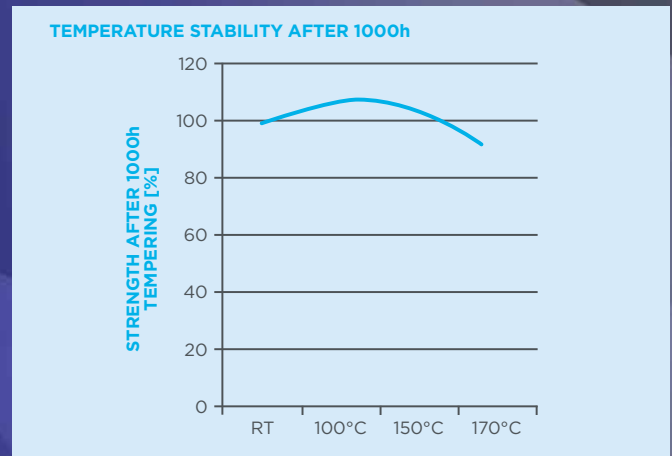
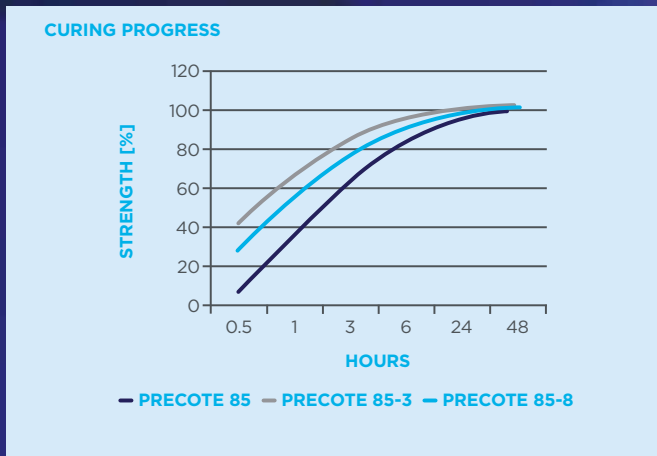
Aisin, Audi, Autoliv, BASF, Bendix, BMW, Bosch, Bridgestone/Firestone, Brose, Chrysler, Continental, Cummins, DAF, Daimler, Dana, Delphi, Denso, Faurecia, Fiat, Ford, Geely, General Motors, Getrag, Hitachi, Honda, Hyundai Kia, Hyundai Mobis, Jaguar Land Rover, Johnson Controls, KWC, Lear, Magna, Magneti 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.

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 product are used, the user should confirm their suitability. We cannot accept liability for any loss, injury or damage which may result from its use. We do not warranty the accuracy or completeness of any such information whether orally or in writing. We reserve the right at anytime and without notice to update or improve products and processes and our information concerning the same.

TECHNICAL DATA

Chemical Type	Acrylate	
Colour¹	Turquoise	
Thread Friction μThread²	0.10 - 0.15	
Curing Time³ at RT to Final Strength	ca. 24h	
Curing time³ at RT to Exceed the Values According to DIN 267-27	precote 85: 6h precote 85-8: 6h precote 85-3: 0.5h	
Prevailing-in Torque PIT on Assembly³	<3 Nm	
Strength Without Preload BAT³	>20 Nm	
Prevailing-out Torque POT³	<55 Nm	
Temperature Range According to DIN 267-27 Temperature Range According to GMW 14657	-60°C to +170°C -75°F to +340°F -60°C to +200°C -75°F to +390°F	
Chemical Resistance Tested According to all Current Automotive Standards and DIN 267-27, Storage Time 1000h	<ul style="list-style-type: none"> Engine Oil Super-Grade Gasoline DOT4 Brake Fluid Anti-Freeze 100% Anti-Freeze/Water 50:50 Automatic Transmission Oil Transmission Oil Polyurea AdBlue® 	Test Temperature 150°C 23°C 90°C 120°C 120°C 150°C 120°C 23°C

¹ This product information is also valid for special colours. The specified colour is not a primary product feature. The colour may vary slightly due to the manufacturing process and the formulation. This does not affect the quality of the product. ²Test according to DIN EN ISO 16047. 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. ³ 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.



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