precote 80

Technical Data Sheet

precote 80-3, precote 80-8

High-Strength and Heat-Resistant Thread Coating.

DESCRIPTION

precote 80, precote 80-3 and precote 80-8 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 80 are high strength thread locking coatings with a locking effect even at high temperatures. They can be used on all types of external threads.

precote 80:	for threads> M6 and pitches > 1mm
precote 80-3:	accelerated curing for threads> M6 Yellow UV marker visible under UV light
precote 80-8:	for threads ≤ M6 or pitches ≤ 1mm to max. M10x1 White UV marker visible under UV light

The physical data and chemical resistance of precote 80-3 and precote 80-8 match with the data of the standard version precote 80 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 80 and precote 80-8 exceed the required values of DIN 267-27 after 6 hours curing at RT. Fast curing precote 80-3 exceeds these values after 30 minutes
- 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
- Thread friction must be considered on assembly
- Prevents corrosion in the threaded connection

ALL VERSIONS OF PRECOTE 80 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, JCB, Johnson Controls, KWC, Lear, Magna, Magneti Marelli, Mahle, MAN, Michelin, Opel, Panasonic (Matsushita Electric), Perkins, Porsche, PSA, Renault, Rover, Saab Scania, Schaeffler, Siemens, Stihl, Tesla, Toyota, TRW Automotive, Valeo, Volvo, VW, ZF Friedrichshafen and many more.

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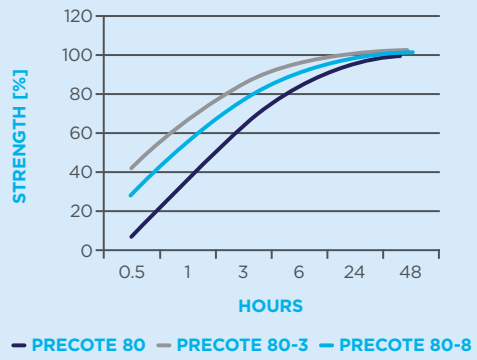
TECHNICAL DATA

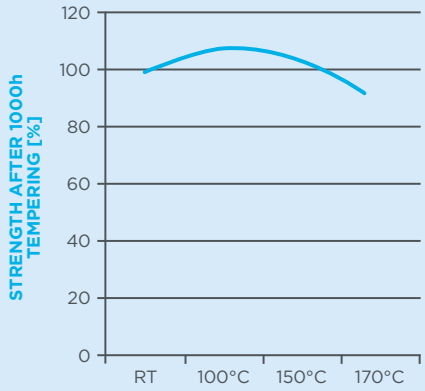
Chemical Type	Acrylate
Colour[1]	Red/Pink
Thread Friction µThread[2]	>0.25
Curing Time[3] at RT to final strength	ca. 24h
Curing Time[3] at RT to Exceed the Values According to DIN 267-27	precote 80: 6h precote 80-8: 6h precote 80-3: 0.5h
Prevailing-in Torque PIT on Assembly[3]	<3 Nm
Strength Without Preload BAT[3]	>20 Nm
Prevailing-out Torque POT[3]	<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 -75F to +390°F
Chemical Resistance Tested According to all Current Automotive Standards and DIN 267-27, Storage Time 1000h	**Test Temperature** Engine Oil 150°C Super-Grade Gasoline 23°C DOT4 Brake Fluid 90°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 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. [2]Test 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.

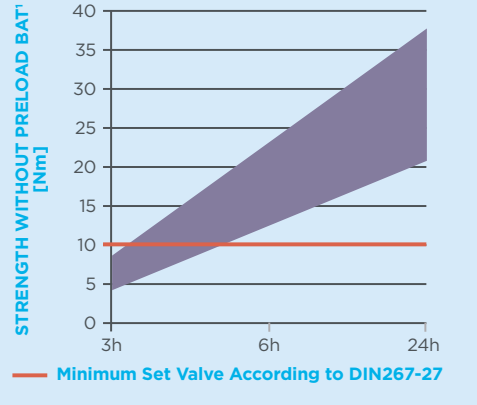
CURING PROGRESS



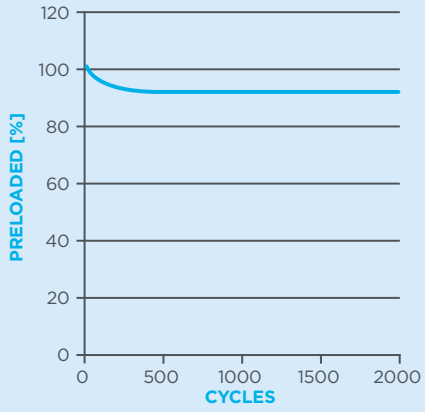
TEMPERATURE STABILITY AFTER 1000h



RANGE OF STRENGTH WITHOUT PRELOAD BAT[1]



VIBRATION TEST ACCORDING TO JUNKERS DIN 65151 & ISO



[1]Test according to DIN 267-27. 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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