



precote 4

Coating for Sealing of Threaded Joints

Description

precote 4 is a non-reactive coating used for immediate sealing of cylindrical and conical threads. The coating is dry, tack-free and with good adherence.

Application

precote 4 provides sealing for assembly components, e.g. screws, studs, plugs and pipe threads, both cylindrical/cylindrical and cylindrical/conical parts against gases, water, motor oils, gasoline, diesel, brake fluids, water/glycol mixtures, automatic transmission oils, gear oils and other liquids. precote 4 can also be applied to flange head screws or plugs with collar for under head sealing and be used as a sealing material for rivets.

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

- Sealing immediately after assembly
- Controlled thread friction values when assembled
- Constant assembly properties
- Forms a dry and tack free film
- Good thermal and chemical resistance
- Can be applied to metallic and non-metallic surfaces
- Non-hazardous

Technical data

Chemical Type	Acrylate																
Color ¹	white / blue																
Thread friction value μ_{Thread}^2	0,16 – 0,20																
Initial installation torque ^{3,4}	2 – 5 Nm																
Sealing properties																	
Threads cylindrical/cylindrical	tested up to 15 bar																
Threads cylindrical/conical	tested up to 50 bar																
Maximum operation temperature in air with sealing effect	-60°C to +180°C -75°F to +355°F																
Chemical resistance tested according to all current automotive standards and DIN 267-27, storage time 1000h	<table border="1"> <thead> <tr> <th colspan="2">Test temperature</th> </tr> </thead> <tbody> <tr> <td>Engine oil</td> <td>160°C</td> </tr> <tr> <td>Diesel</td> <td>23°C</td> </tr> <tr> <td>Anti-freeze 100%</td> <td>120°C</td> </tr> <tr> <td>Anti-freeze/Water 50:50</td> <td>120°C</td> </tr> <tr> <td>Automatic transmission oil</td> <td>150°C</td> </tr> <tr> <td>Transmission oil</td> <td>120°C</td> </tr> <tr> <td>Polyurea AdBlue®</td> <td>23°C</td> </tr> </tbody> </table>	Test temperature		Engine oil	160°C	Diesel	23°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
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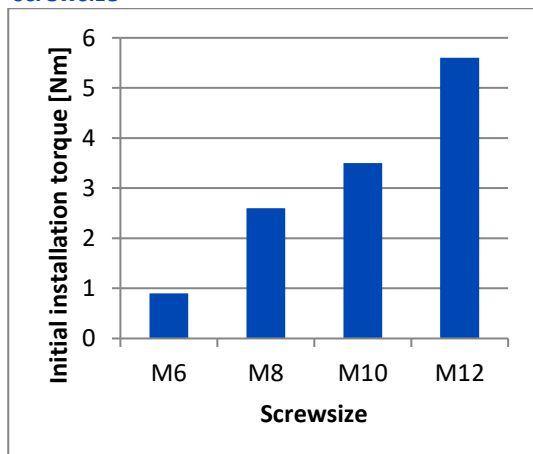
¹ This product information is also valid for special colors. The specified color is not a primary product feature. The color may vary slightly due to the manufacturing process and the formulation. This does not affect the quality of the product.

² 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.

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⁴ Test according to DIN 267-27.

Average initial installation torques¹ in relation to screw size



¹ Test according to DIN 267-27.

precote 4 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.

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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.