

precote 5

Technical Data Sheet



Coating for Sealing of Threaded Joints.

DESCRIPTION

precote 5 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 5 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 5 can also be applied to flange head screws or plugs with collar for under head sealing and 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.

STORAGE

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

Please note the omniTECHNIK packaging information.

PROPERTIES

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

PRECOTE 5 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, Jaguar Land Rover, 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.

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	White																	
Thread Friction μThread²	0.12 - 0.18																	
Initial Installation Torque^{3,4}	2-5 Nm																	
Sealing Properties at Rt in Air Threads Cylindrical/Cylindrical Threads Cylindrical/Conical	Tested up to 15 bar Tested up to 50 bar																	
Maximum Operation Temperature in air with Sealing Effect³	-60°C to +160°C -75°F to +355°F																	
Chemical Resistance Tested According to all Current Automotive Standards and Din 267-27, Storage Time 1000h	<table border="0"> <tr> <td>Engine Oil</td> <td>Test Temperature</td> </tr> <tr> <td>Super-Grade Gasoline</td> <td>160°C</td> </tr> <tr> <td>Anti-Freeze 100%</td> <td>23°C</td> </tr> <tr> <td>Anti-Freeze/Water 50:50</td> <td>120°C</td> </tr> <tr> <td>Automatic Transmission Oil</td> <td>120°C</td> </tr> <tr> <td>Transmission Oil</td> <td>150°C</td> </tr> <tr> <td>Polyurea AdBlue®</td> <td>120°C</td> </tr> <tr> <td></td> <td>23°C</td> </tr> </table>	Engine Oil	Test Temperature	Super-Grade Gasoline	160°C	Anti-Freeze 100%	23°C	Anti-Freeze/Water 50:50	120°C	Automatic Transmission Oil	120°C	Transmission Oil	150°C	Polyurea AdBlue®	120°C		23°C	
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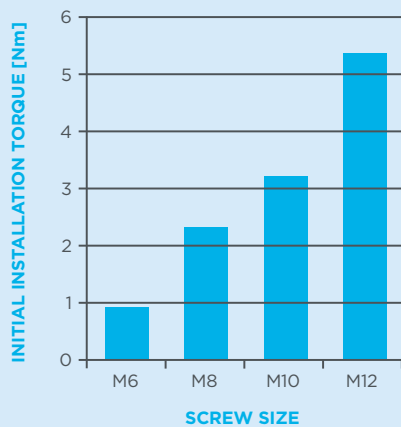
¹This product information is also valid for special colours. The specified colour is not a primary product feature. The colour may vary slightly due to the manufacturing process and the formulation. This does not affect the quality of the product.

²Test according to DIN EN ISO 16047. All values apply to screws ISO 4017 M10x55-8.8- plain finish and nuts ISO 4032 M10-10- plain finish. All other surfaces could deliver different values.

³All values apply to screws ISO 4017 M10x35-8.8- plain finish and nuts ISO 4032 M10-10- plain finish. All other surfaces could deliver different values.

⁴Test according to DIN 267-27.

AVERAGE INITIAL INSTALLATION TORQUES¹ IN RELATION TO SCREW SIZE



¹Test according to DIN 267-27.

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.