



precote 15

Coating for Sealing of Threaded Joints DVGW certified

Description

precote 15 is a non-reactive coating used for immediate sealing of cylindrical and conical threads. The coating is dry, with good adherence and elastic.

Application

precote 15 is used as a coating for assembly components, e.g. screws, studs, plugs and pipe threads, both cylindrical/cylindrical and cylindrical/conical parts. precote 15 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.

Properties

- No leakage immediately after assembly
- Controlled thread friction values during assembly
- Constant assembly properties
- Forms a dry to the touch and elastic coating
- Good thermal and chemical resistance
- Can be applied to metallic and non-metallic surfaces
- Non-hazardous

Technical data

Chemical Type	Acrylate																
Color ¹	white																
Thread friction value μ_{Thread} ²	0,10 – 0,15																
Initial installation torque ^{3,4}	3 – 7 Nm																
Sealing properties at RT in air																	
Threads cylindrical/cylindrical	tested up to 15 bar																
Threads cylindrical/conical	tested up to 250 bar																
Maximum operation temperature in air with sealing effect ³	-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	<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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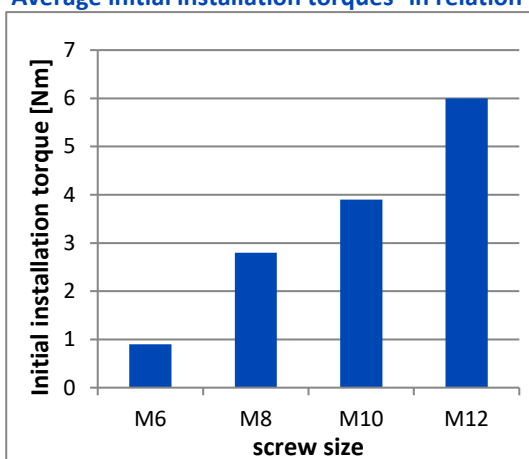
¹ This product information is also valid for special colors. The specified color is not a primary product feature. The color may vary slightly due to the manufacturing process and the formulation. This does not affect the quality of the product.

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

³ All 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.

⁴ Test according to DIN 267-27.

Average initial installation torques¹ in relation to screw size



¹ Test according to DIN 267-27.

precote 15 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

DVGW certified

DVGW registration number NG-5142BU0287 (non-hardening thread sealant positively tested according to DIN EN 751-2)



DIN-DVGW type examination certificate

DIN-DVGW-Baumusterprüfzertifikat

NG-5142BU0287
Registration Number
Registrierungsnummer

Field of Application <i>Anwendungsbereich</i>	products of gas supply <i>Produkte der Gasversorgung</i>
Owner of Certificate <i>Zertifikatinhaber</i>	omniTECHNIK Mikroverkapselungs GmbH Triebstraße 9, D-80993 München
Distributor <i>Vertreiber</i>	omniTECHNIK Mikroverkapselungs GmbH Triebstraße 9, D-80993 München
Product Category <i>Produktart</i>	greasing and sealing materials: Sealing and jointing materials for gas and water installations for metallic jointing, non hardening (5142)
Product Description <i>Produktbezeichnung</i>	Non-hardening jointing compound for thread pre-coating
Model <i>Modell</i>	precote® 15
Test Reports <i>Prüfberichte</i>	type testing: 19-00237 from 08.04.2020 (EBI)
Test Basis <i>Prüfgrundlagen</i>	DIN EN 751-2 (01.08.1997)

Date of Expiry / File No. 29.07.2024 / 20-0238-GNA
Ablaufdatum / Aktenzeichen

04.05.2020 K6 A-1/2
Date: Issued by: Sheet, Head of Certification Body
Datum: Bearbeiter: Blatt, Leiter der Zertifizierungsstelle

DVGW CERT GmbH is an accredited body by DAkkS according to DIN EN ISO/IEC 17065:2013 for certification of products for energy and water supply industry.

DVGW CERT GmbH ist von der DAkkS nach DIN EN ISO/IEC 17065:2013 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.



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A-2/2

NG-5142BU0287

Gas Category	Remarks
Gasart	Bemerkungen
fuel gases of the 1., 2. & 3. gas family	

Type	Technical Data	Remarks
Typ	Technische Daten	Bemerkungen
precote® 15	class: A	

Hints of Utilization / Remarks
Verwendungshinweise / Bemerkungen
temperature range/pressure range (gas): -20...+70 °C / <= 5 bar temperature range/pressure range (hot water): up to +130 °C / <= 7 bar application: thread pre-coating with min. 0.5 mm layer thickness on the thread flanks

Storage

Shelf-life of coated parts 4 years at max. 30°C and max. 65% relative humidity.
Please note the omniTECHNIK packaging information.

May 2020

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.