



Sealing for threaded joints DVGW certified

precote 15

Description

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

Application

precote 15 is used for sealing assembly components e.g., screws, studs, plugs and pipe threads, both cylindrical/cylindrical and cylindrical/conical parts. It 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 processes, especially for serial production. Areas of application are electronics, two-wheeler 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.

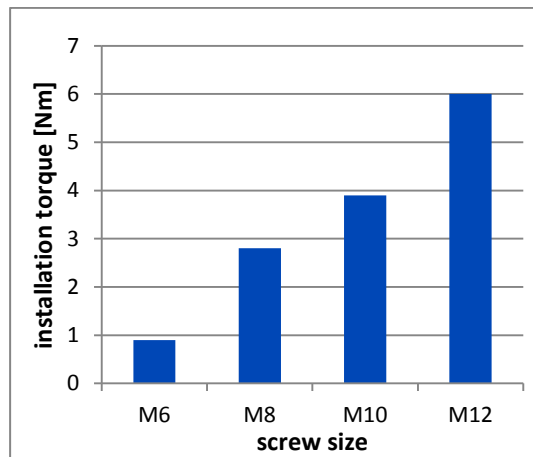
Technical data

| Typical Properties | | | | | | | | | | | | | | | |
|--|---|-----------|-------|--------|------|-----------------|-------|------------------------|-------|-----------------------|-------|-------------|-------|------------------|------|
| Chemical Type | Acrylate | | | | | | | | | | | | | | |
| Color | white | | | | | | | | | | | | | | |
| Thread friction value μ_{Thread}^1 | 0.10 – 0.15 | | | | | | | | | | | | | | |
| Head friction value μ_{Head}^1 | to be tested in each case | | | | | | | | | | | | | | |
| Initial installation torque ² | 3 – 7 Nm | | | | | | | | | | | | | | |
| Sealing properties at RT | | | | | | | | | | | | | | | |
| Threads cylindrical/cylindrical | tested up to 15 bar | | | | | | | | | | | | | | |
| Threads cylindrical/conical | tested up to 250 bar | | | | | | | | | | | | | | |
| Maximum operation temperature in air | -60°C to +180°C -75°F to +355°F | | | | | | | | | | | | | | |
| Good chemical resistance | test temperature | | | | | | | | | | | | | | |
| tested according to current automotive standards and DIN 267-27, storage 1000h | <table border="0"> <tr> <td>motor oil</td> <td>160°C</td> </tr> <tr> <td>diesel</td> <td>23°C</td> </tr> <tr> <td>antifreeze 100%</td> <td>120°C</td> </tr> <tr> <td>antifreeze/water 50:50</td> <td>120°C</td> </tr> <tr> <td>automatic gearbox oil</td> <td>150°C</td> </tr> <tr> <td>gearbox oil</td> <td>120°C</td> </tr> <tr> <td>polyurea AdBlue®</td> <td>23°C</td> </tr> </table> | motor oil | 160°C | diesel | 23°C | antifreeze 100% | 120°C | antifreeze/water 50:50 | 120°C | automatic gearbox oil | 150°C | gearbox oil | 120°C | polyurea AdBlue® | 23°C |
| motor oil | 160°C | | | | | | | | | | | | | | |
| diesel | 23°C | | | | | | | | | | | | | | |
| antifreeze 100% | 120°C | | | | | | | | | | | | | | |
| antifreeze/water 50:50 | 120°C | | | | | | | | | | | | | | |
| automatic gearbox oil | 150°C | | | | | | | | | | | | | | |
| gearbox oil | 120°C | | | | | | | | | | | | | | |
| polyurea AdBlue® | 23°C | | | | | | | | | | | | | | |

¹ Test according to DIN EN ISO 16047. Test specimen: screws M10x55 ISO 4017-8.8 plain, nuts M10-10 ISO 4032 plain. Other surfaces may provide different results.

² Test specimen: screws M10x35 ISO 4017-8.8 plain, nuts M10-10 ISO 4032 plain. Screw sizes and surfaces differing from that may provide different results.

Average installation torques in Nm according to screw size



Spezifikationen

- precote 15 meets and exceeds the 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 other
- DVGW certified: DVGW registration number NG-5142BU0287 (non-hardening jointing compound tested positive according to DIN EN 751-2)



CERT

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> | laboratory control test: 14/112/5142/01 from 23.05.2014 (EBI) |
| Test Basis <i>Prüfgrundlagen</i> | DIN EN 751-2 (01.08.1997) |

Date of Expiry / File No. 29.07.2019 / 14-0464-GNV
Ablaufdatum / Aktenzeichen

22.07.2014 Rie 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 EN 45011:1998 for certification of products for energy and water supply industry.

DVGW CERT GmbH ist von der DAkkS nach DIN EN 45011:1998 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.



Deutsche
Akkreditierungsstelle
D-ZE-16028-01-01

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Storage

Shelf life 4 years at max. 30°C and max. 65% relative humidity.

Storage and transport conditions see omniTECHNIK packaging information.

October 2017

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 knowledge and influence 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.