



# GORE-TEX® DK 401 SEALANT

The only<sup>1</sup> sealant to be tested for use up to 225°C and 25 bar



## Sealant for access holes

GORE-TEX® DK 401 sealant has been specifically developed for internally sealed access holes on hot water, pressure and steam vessels.

<sup>1</sup>It is the first cord-type sealant to be tested and approved according to VdTÜV guideline "Sealant 100" and Technical Regulations for Steam Vessels (TRD) 401, appendix 1 for test class "c".

Suitable for applications in internally sealed access holes, it can withstand temperatures up to 225°C and steam pressures up to 25 bar.

GORE-TEX® DK 401 sealant is available on spools and is therefore suitable for any size of opening regardless of the type of construction material.

The structure of GORE-TEX® DK 401 sealant ensures that it conforms easily to tolerances and irregularities in the sealing surfaces. Even after installation the sealant is extremely pressure resistant and can therefore ensure safe operation over long periods.

## Technical Data

### Material

100%, virgin ePTFE, free from asbestos and other lung damaging components and not subject to ageing.

### Approved Application Range

p/T application range:  
max. 225°C and 25 bar in accordance with test class "c".

Maximum pressure tested with cold water:  
55 bar

VdTÜV component code number:  
TÜV . D .00-006 . c

### \*\*Chemical Resistance

Resistant to all media in the range of pH 0-14, except molten alkali metals and elemental fluorine, particularly at elevated pressures and temperatures.

### Physiological Safety

Physiologically harmless according to VDI/VDE guidelines 2480, sheet 1, paragraph 4.9, all sealant components comply with FDA requirements for food.

## SEALANT FOR HANDHOLES, MANHOLES AND OTHER ACCESS HOLES

### Characteristics

- not subject to ageing
- made of 100%, virgin ePTFE
- physiologically harmless according to VDI/VDE guidelines 2480
- complies with FDA requirements for food
- resistant to all media in the range of pH 0-14
- free from asbestos

### Advantages

- approved by VdTÜV guidelines "Sealant 100" and the Technical Regulations for Steam Vessels (TRD) 401, appendix 1 for test class "c" up to 225°C and 25 bar.
- suitable for all sorts of shapes, materials, makes and sizes of handhole, manhole and other access holes
- low storage costs
- easy to install due to adhesive backing
- conforms easily to irregularities in the sealing surfaces
- high pressure resistance

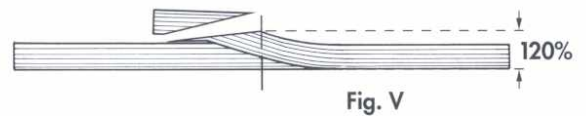
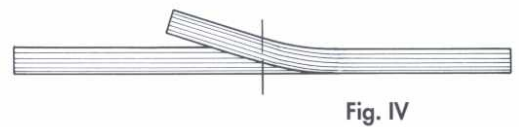
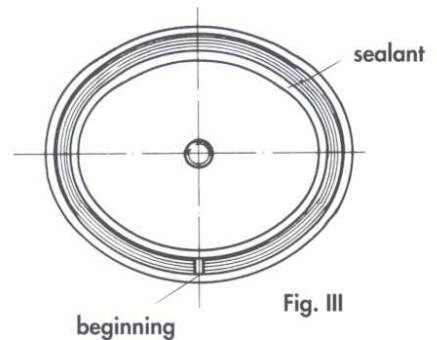
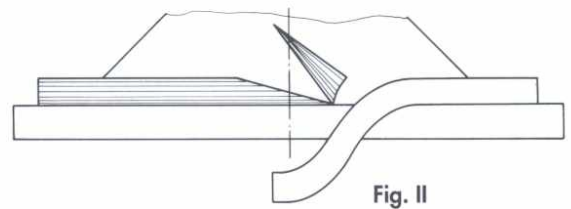
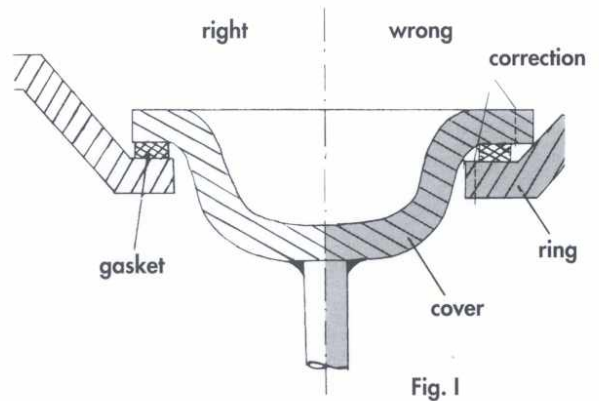


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## Installation Instructions

1. To ensure a proper seal, the sealing surfaces must be compatible. If the gasket cannot be compressed because of metal contact between the cover and the opening, the only means of correction is either by reducing the diameter of the cover or increasing the diameter of the hole. (Fig. I)
2. Clean the gasket area completely of grease, debris, etc.
3. Peel off adhesive backing paper
4. Cut the cord at an angle over a length of approx. 20 mm (Fig. II)
5. Position the gasket cord in the centre of the sealing surface, beginning at a clamp. (Fig. III)
6. Close the gasket ring by locating the uncut gasket cord over the cord already positioned. (Fig. IV)
7. Cut the end of the gasket cord so that it overlaps by approx. 120%. (Fig. V)
8. Put the cover in the center of the hole and apply the maximum bolt force.
9. During the heating period, and in particular before reaching the evaporating temperature, the bolts must be inspected and – if necessary – retorqued.
10. Approx. 15 minutes after reaching operating conditions, if necessary re-torque to the maximum bolt\* once more.



## \*Table of typical bolt torques

Bolt	Torque
M 16	approx. 83 Nm
M 20	approx. 156 Nm
M 24	approx. 300 Nm
M 30	approx. 540 Nm

For more detailed information about bolt torques, please ask the original equipment manufacturer.

### Availability

DK 401 is available on spools of 10, 25 and 50 m.

### Quality Assurance

This form is the basis of the high level of quality of GORE sealants. The GORE Quality Control system is certified according to DIN EN ISO 9001 by DQS. Component suppliers are also integrated into this system.



Supplied by:



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