

# LOCK SEAL

## DESCRIPTION

Lock Seal is a Green World classified, medium strength, high performance anaerobic thread and flange sealant designed for the locking and sealing of metal threaded pipes and fittings. Certified according to DIN-DVGW in accordance with DIN 751-1 and NSF-registered (S2). For use in commercial and residential potable water systems not exceeding 82°C. Provides lowpressure resistance immediately after application.

## PROPERTIES

- Acts as a low-pressure seal directly after assembly and can be disassembled after hardening.
- Without hazard symbols, less environment and health impacts, resulting in an improved and safer work place for the user.
- Replaces teflon tape, lin and thread tape.
- Is high viscous upon application but become thin in motion and then easily fills the entire gap between the threads.
- Specially designed packaging that provides minimal waste and makes the product very easy and practical to apply.
- The 15-30 minutes fixture time gives you time to make adjustments.
- Lock Seal you can use on any size threads as long as they are filled with the sealant.

## FIELD OF APPLICATION

- Seals and prevents gas and fluid leaks from pipe joints into water, LPG, hydrocarbons, oil, fuels, cooling agents and chemicals, etc.
- Can be used on stainless materials without needing an activator.
- Safe and reliable. Certified by DVGW and ANSI, NSF-certified.
- Perfect for applications in heating, plumbing and sanitation, pneumatics and hydraulics, has a very high-pressure resistance.
- Ideal for applications in plumbing, pneumatics and hydraulics.

## USER INSTRUCTIONS

In Germany not allowed for use in household gas-installations acc. to TRGI '86/96. Lock Seal is not recommended for threads, cut in copper or copper alloys, which have contact with hot water (>40°C), without any preliminary testing. Surfaces should be dry, clean, and free of any contamination. Apply 360 ° bead of product to the leading threads, leaving the first thread free. Force the material into the threads and voids, adjust product amount accordingly. Assemble and tighten as required. Bottles should have a lot of air in them and should be allowed to "breathe" to prevent the adhesive from hardening.


**LOCK SEAL - LCS – 45**
**Art.no. 15207**

Signature: JH

Date: 2022-07-14

This product information is property of VEIDEC AB and is not to be forwarded to third persons without our agreement. The product information has been made out according to our experiences; the corresponding distributing company has to point out probable characteristics as to the use of the product as the application fields are often very different. The recommendations as to technical use are not binding and do not justify any contractual relationship and subsidiary obligations under the contract of purchase. They especially do not relieve the buyer from testing our product on his own as to the suitability for the designated field of application.

# LOCK SEAL

## TECHNICAL DETAILS

<b>Colour:</b>	Yellow / fluorescent.
<b>Packaging:</b>	50 ml bottle. Art.no. 15207
<b>Chemical base:</b>	Diester of Methacrylic Acid.
<b>Odour:</b>	Low
<b>Viscosity (25°C Brookfield RVT):</b>	55 000-80 000 mPas spindle/rpm 6/2,5 18 000 30 000 mPas spindle/rpm 6/20
<b>Density (25°C):</b>	1,05 g/cm <sup>3</sup>
<b>Full curing time:</b>	3 – 6 hours.
<b>Fixture time:</b>	15 – 30 minutes.
<b>Functional cure time:</b>	1 – 3 hours.
<b>VOC (directive 2010/75/EU):</b>	<3 %
<b>Gap fill:</b>	up to 0,5 mm.
<b>Max thread diameter:</b>	up to 76 mm (3 inch).
<b>Shelf life (+8°C to +25 °C):</b>	12 months.
<b>Prevail torque (DIN 54454)</b>	10 – 15 N.m (M10)
<b>Break loose torque (ISO 10964)</b>	10 – 20 N.m (M10)
<b>Shear strength:</b>	6 – 13 N/mm <sup>2</sup>
<b>Pressure resistance:</b>	Higher than the pressure resistance of the pipe (resists pressure until the thread of the pipe bursts).
<b>Temperature resist:</b>	-55°C to +150°C
<b>Application &amp; surface temperature:</b>	+5°C to +40°C.
<b>Certificate/Registered:</b>	GREEN WORLD, DIN-DVGW, NSF S2.
<b>Chemical resistance:</b>	Separate list is available for chemical, gases.
<b>Others:</b>	In compliance with the legal regulations, please see current Material Safety Data Sheet. <a href="https://veidec.com/en/msds">https://veidec.com/en/msds</a>
<b>User Instruction:</b>	Scan the QR-code for MSDS, video and other information.

### CERTIFICATES/REGISTRATIONS



DIN-DVGW in accordance with DIN 751-1



NSF; category code S2.  
<http://www.nsf.com/USDA/letters/150643.pdf>



GREEN WORLD



Strength and physical properties is measured on cured product:  
M10x20 bolt – grade 8,8 zinc phosphated – nut 0,8 – not on-torque.

Curing time depends on the dimensions (smaller means faster) if they are oily/dirty. But it is affected mainly by the type of material. The fastest curing times are achieved on nuts/bolts made of steel, iron copper, brass or bronze (active materials). 'Slower' metals include stainless steel, zinc, aluminium (with low copper content), chrome, nickel, silver and tin (passive materials).

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