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## 1. Standard Range

### Tamper proof sealant



#### Properties

- Fast drying
- Insulating
- Good media resistance

#### Colours / Item numbers

				
Transparent	White	Yellow	Orange	Red
#10080	#11000	#12000	#12200	#13000
				
Pink	Blue	Green	Gray	Black
#13200	#14000	#15000	#17000	#18000

The Schraubensicherungslack (tamper proof sealant) of Lackfabrik Bäder GmbH & Co. KG is the reference since 1962 in the market of tamper proof sealants and for years has been used millionfold in small, medium, large and global industrial companies.

Our Schraubensicherungslack is the essential tool to protect, mark, fill and seal work involving all kinds of screw securing jobs. It is used for quality assurance and to safeguard against manipulation in machine-building, precision-engineering, the automotive industry and electronics.

#### Industry specifications

- Airbus-Specification ECS-L 2274
- Boeing-Specification BMS8 45 Type II
- Rolls Royce Specification MSRR1102
- Bosch Norm 2580-1

Standard Range

## 1.1 Technical data

<b>Viscosity</b>	15,000 - 20,000 mPas
<b>VOC content</b>	540 g/L ±20 g/L*
<b>Application temperature</b>	+5-30° C
<b>Temperature stability</b>	up till 125° C
<b>pH value</b>	-
<b>Flashpoint</b>	29° C
<b>MAK value:</b>	100 ppm; 480 mg/m3
<b>Ignition temperature</b>	ca. 330° C according to DIN 51794
<b>Touch dry after</b>	ca. 5 min**
<b>Fully hardened after:</b>	ca. 24 hours**
<b>Density</b>	ca. 1.05 g/cm3

\* May vary slightly depending on the colour.

\*\* Touch dry and through-drying speed are strongly dependent on the coating thickness and the ambient conditions. Please test for your own application.

## 1.2 Media resistance

Water	●
Gasoline	●
Super 95	●
White spirit 135/175	●
Special boiling point product 100/140	●
Ethanol	○
Isopropyl alcohol (IPA)	●
n-Butanol	●
2-Methoxy-1-Propanol	○
Butylacetate	✕
Ethylacetate	✕
Acetone	✕
Methyl ethyl ketone (MEK)	✕
Titanium grease	●
WD-40	●
Hydrochloric acid 0,5 mol/l	●
Sodium hydroxide 0,5 mol/l	●

- Resistant: no or very little impairment
- Limited resistance: weak to moderate attack
- ✕ Unstable: strong attack / paint dissolves in medium

Standard Range
 

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## 1.3 Security levels

The Standard Range is available in the security levels Basic, Secure and Topsecure (BäderIdent®).

### Basic

The security level Basic constitutes just the lacquer without the admixture of marking particles.

### Storage

20 ml tube and 1 kg can:

Shelf life at room temperature (ca. 20°C) is 2 years.

30/50 ml cartridge:

Shelf life at room temperature (ca. 20°C) is 6 months.

### Secure



The security level Secure contains a hidden security feature which can be made visible (fluorescence) with a 300 mV infrared laser pointer (980 nm).

### Colour / Item numbers

○ White #11002; ● Yellow #12002; ● Orange #12202; ● Red #13002; ● Pink #13202; ○ Transparent #10082;

### Storage

20 ml tube and 1 kg can:

Shelf life at room temperature (ca. 20°C) is 1 year.

30/50 ml cartridge:

Shelf life at room temperature (ca. 20°C) is 6 months.

### Topsecure (BäderIdent®)



The security level Topsecure (BäderIdent®) offers an unambiguous product identification, making it an effective means against product counterfeiting and manipulation of every kind. The BäderIdent® lacquer system contains an individual code which consists of a specific fluorescent marker particle and a color. By means of a suitable analyser, you can always check on site the authenticity and integrity of your product.

### Colour / Item numbers

○ White #11001; ● Yellow #12001; ● Orange #12201; ● Red #13001; ● Pink #13201; ● Blue #14001w; ● Green #15001w;

### Storage

20 ml tube, 30/50 ml cartridge and 1 kg can:

Shelf life at room temperature (ca. 20°C) is 6 months.

Standard Range

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## 1.4 Further information

### Ordinance on hazardous substances

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### Pretreatment of surfaces

Surfaces must be cleaned of grease, oil, humidity and rust. Please perform compatibility tests to your application/material demands.

### Processing

Apply directly to fittings dropwise, use the extension-tip to reach even poorly accessible connections (tube).

### Cleaning

Product residues and impurities are easily removed with Universal Tamper Proof Sealant Remover.

### Personal protection measures

Respiratory protection not required in well-ventilated areas; avoid inhalation of fumes; ensure sufficient ventilation!

### Firefighting

Foam, CO<sub>2</sub>, extinguishing powder or sand, never use full water jet.

### Accidental release measures

Absorb with binding material (e.g. sand, diatomaceous earth, acid binder, universal binder) and dispose of in accordance with the local regulations.

### Disposal

Dispose of product residues and packaging in accordance with the local regulations.

## 2. Zero Range

### Aqueous tamper proof sealant



#### Properties

- Without organic solvents
- Insulating
- Good media resistance

#### Colours / Item numbers



Schraubensicherungs-lack Zero (aqueous tamper proof sealant) from Lackfabrik Bäder GmbH & Co. KG is the first 100% water-based securing lacquer system that works completely without organic solvents (VOC-free). In addition to its excellent adhesive properties, it has good breaking properties and a drying speed that is phenomenal for water-based systems. Furthermore, it is not a hazardous material, which leads to a significant risk minimization for the user during its processing.

Our Schraubensicherungs-lack Zero is the essential tool to protect, mark, fill and seal work involving all kinds of screw securing jobs. It is used for quality

assurance and to safeguard against manipulation in machine-building, precision-engineering, the automotive industry and electronics.

#### Industry specifications

- Boeing-Specification BMS8 45 Type II
- Rolls Royce Specification MSRR1102
- Bosch Norm 2580-1

Zero Range

## 2.1 Technical data

<b>Viscosity</b>	15,000 - 20,000 mPas
<b>VOC content</b>	0 g/L
<b>Application temperature</b>	+5-30° C
<b>Temperature stability</b>	up till ca. 90° C
<b>pH value</b>	ca. 8 - 9
<b>Flashpoint</b>	-
<b>MAK value:</b>	-
<b>Ignition temperature</b>	-
<b>Touch dry after</b>	ca. 15 min*
<b>Fully hardened after:</b>	ca. 16 hours*
<b>Density</b>	ca. 0.98 g/cm <sup>3</sup>

\* Touch dry and through-drying speed are strongly dependent on the coating thickness and the ambient conditions. Please test for your own application.



## 2.2 Media resistance

Water	●
Gasoline	●
Super 95	○
White spirit 135/175	●
Special boiling point product 100/140	●
Ethanol	○
Isopropyl alcohol (IPA)	○
n-Butanol	○
2-Methoxy-1-Propanol	○
Butylacetate	○
Ethylacetate	○
Acetone	○
Methyl ethyl ketone (MEK)	○
Titanium grease	●
WD-40	●
Hydrochloric acid 0,5 mol/l	○
Sodium hydroxide 0,5 mol/l	○

- Resistant: no or very little impairment
- Limited resistance: weak to moderate attack
- ✕ Unstable: strong attack / paint dissolves in medium

Zero Range
 

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## 2.3 Security levels

The Zero Range is available in the security levels Basic, Secure and Topsecure (BäderIdent®).

### Basic

The security level Basic constitutes just the lacquer without the admixture of marking particles.

### Storage

20 ml tube, 30/50 ml cartridge and 1 kg can:  
Store between 10-18° C. Shelf life: 6 months. Longer storage times may be possible, please test before use.



The security level Secure contains a hidden security feature which can be made visible (fluorescence) with a 300 mV infrared laser pointer (980 nm).

### Colours / Item numbers

○ White #11002w; ● Yellow #12002w; ● Red #13002w;

### Storage

20 ml tube, 30/50 ml cartridge and 1 kg can:  
Store between 10-18° C. Shelf life: 6 months. Longer storage times may be possible, please test before use.

### Topsecure (BäderIdent®)



The security level Topsecure (BäderIdent®) offers an unambiguous product identification, making it an effective means against product counterfeiting and manipulation of every kind. The BäderIdent® lacquer system contains an individual code which consists of a specific fluorescent marker particle and a color. By means of a suitable analyser, you can always check on site the authenticity and integrity of your product.

### Colours / Item numbers

○ White #11001w; ● Yellow #12001w; ● Red #13001w; ● Blue #14001w; ● Green #15001w;

### Storage

20 ml tube, 30/50 ml cartridge and 1 kg can:  
Store between 10-18° C. Shelf life: 6 months. Longer storage times may be possible, please test before use.

Zero Range

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## 2.4 Further information

### Ordinance on hazardous substances

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

### Pretreatment of surfaces

Surfaces must be cleaned of grease, oil, humidity and rust. Please perform compatibility tests to your application/material demands.

### Processing

Apply directly to fittings dropwise, use the extension-tip to reach even poorly accessible connections (tube).

### Cleaning

Product residues and impurities are easily removed with Universal Tamper Proof Sealant Remover.

### Personal protective measures

Avoid contact with eyes.

### Accidental release measures

Absorb with binding material (e.g. sand, diatomaceous earth, acid binder, universal binder) and dispose of in accordance with the local regulations.

### Disposal

Dispose of product residues and packaging in accordance with the local regulations.

### 3. Universal Tamper Proof Sealant Remover

**Properties**

- Easy handling
- Solvent saving
- Universally applicable

**Item numbers**

#10091

The Universal Tamper Proof Sealant Remover from Lackfabrik Bäder GmbH & Co. KG is the first tamper proof sealant remover available on the market. It is ideally suited for quickly removing tamper proof

sealants. This is particularly relevant in areas where frequent opening of the secured screw, plug or housing connection is necessary.

Universal Tamper Proof Sealant Remover

## 3.1 Technical data

<b>Viscosity</b>	ca. 7,500 mPas
<b>VOC content</b>	847 g/L
<b>Application temperature</b>	+5-30° C
<b>Temperature stability</b>	up till 125° C
<b>Flashpoint</b>	-20° C
<b>MAK value:</b>	50 ppm; 220 mg/m <sup>3</sup>
<b>Density</b>	ca. 0.86 g/cm <sup>3</sup>

## 3.2 Further information

### Ordinance on hazardous substances

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### Processing

Apply dropwise and remove by washing with a suitable solvent (e.g. acetone or butyl acetate) or with the Bäder Universal-Diluent after 30 min. of exposure.

If the tamper proof sealant has run into the thread, a second application of the remover may be necessary after removing the upper lacquer layer at the affected area.

### Cleaning

Product residues and impurities are easily removed with Universal Tamper Proof Sealant Remover.

### Personal protective measures

Respiratory protection not required in well-ventilated areas; avoid inhalation of fumes; ensure sufficient ventilation!

### Firefighting

Foam, CO<sub>2</sub>, extinguishing powder or sand, never use full water jet.

### Accidental release measures

Absorb with binding material (e.g. sand, diatomaceous earth, acid binder, universal binder) and dispose of in accordance with the local regulations.

### Disposal

Dispose of product residues and packaging in accordance with the local regulations

## 4. Comparison of our Tamper Proof Sealants

### 4.1 Technical data

	Standard Range	Zero Range
<b>Viscosity</b>	15.000 - 20.000 mPas	15.000 - 20.000 mPas
<b>VOC content</b>	540 g/L ±20 g/L*	0 g/L
<b>Application temperature</b>	+5-30° C	+5-30° C
<b>Temperature stability</b>	up till 125° C	up till ca. 90° C
<b>pH value</b>	-	ca. 8 - 9
<b>Flashpoint</b>	29° C	-
<b>MAK value:</b>	100 ppm; 480 mg/m <sup>3</sup>	-
<b>Ignition temperature</b>	ca. 330° C according to DIN 51794	-
<b>Touch dry after</b>	ca. 5 min**	ca. 15 min**
<b>Fully hardened after:</b>	ca. 24 hours**	ca. 16 hours**
<b>Density</b>	ca. 1,05 g/cm <sup>3</sup>	ca. 0,98 g/cm <sup>3</sup>

\* May vary slightly depending on the colour.

\*\* Touch dry and through-drying speed are strongly dependent on the coating thickness and the ambient conditions. Please test for your own application.

## 4.2 Media resistance

	Standard Range	Zero Range
Water	●	●
Gasoline	●	●
Super 95	●	○
White spirit 135/175 Special boiling point product 100/140	●	●
Ethanol	○	○
Isopropyl alcohol (IPA)	●	○
n-Butanol	●	○
2-Methoxy-1-Propanol	○	○
Butylacetate	✗	○
Ethylacetate	✗	○
Acetone	✗	○
Methyl ethyl ketone (MEK)	✗	○
Titanium grease	●	●
WD-40	●	●
Hydrochloric acid 0,5 mol/l	●	○
Sodium hydroxide 0,5 mol/l	●	○

- Resistant: no or very little impairment
- Limited resistance: weak to moderate attack
- ✗ Unstable: strong attack / paint dissolves in medium

## 5. Disclaimer

The above information in this technical data sheet (TDS), in particular suggestions for the processing and application of our products, is based on our current knowledge and experience. Due to the various possible applications and due to the fact that the application and working conditions of our customers are beyond our control, we do not accept any liability for the suitability of our products for the relevant production processes under the specific working conditions and the intended processing purposes and results. In order to ensure such suitability, we recommend in any case sufficient previous own trials and tests.

Any liability resulting from the information given in this technical data sheet and any other written or oral advice given for the present product is expressly excluded, unless otherwise agreed in individual contracts, unless there is a case of injury to life, limb or health, unless we have acted with intent or gross negligence or unless liability exists under mandatory product liability law.

The data contained herein is for information purposes only and is considered reliable to the best of our knowledge. However, we cannot accept liability for results obtained by others over whose methods we have no control. It is the responsibility of the user to determine the suitability of production methods mentioned herein for his own purposes and to take such precautions as would be advisable to protect property and persons from the hazards

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