



PROVEN • DURABLE • RELIABLE • VERSATILE
 GERMAN TECHNOLOGY MAKES THE DIFFERENCE



BÄDER® Greenmark® Zero Range Tamper Proof Torque Sealant



BÄDER® Greenmark® Zero Range Aqueous Food Grade torque sealant is divided into 3 security Levels.

- **Basic:** The security level **Basic** constitutes of just the lacquer without the admixture of marking particles.
- **Secure:** The security level **Secure** contains a hidden security feature which can only be made visible (florescence) with a 300mV infrared laser pointer (980 nm).
- **Topsecure (BäderIdent®):** The security level Topsecure (BäderIdent®) offers an unambiguous product identification, making it an effective means against product counterfeiting and manipulation of any kind. The BäderIdent® lacquer system contains an individual code which consists of a specific fluorescent marker particle and a colour. By means of a suitable analyzer, you can always check on site the authenticity and integrity of your product.



Security Level
Basic



Neon Red
 #13050w

Brush Marker

- Ideal for sealing bolts, nuts and adjustable parts
- Provides good anti-fungal properties and resists mould growth
- Fluorescent under black light



Security Level
Secure



Neon Red
 #13060w

High Precision
 Marker

- Enables highly precise and clean work on smallest parts
- Perfectly suited for labelling/markng a wide varieties of workpieces
- Fluorescent under black light



Security Level
**Topsecure
 (BäderIdent®)**

Colours Available for Security Level Basic	Colours	White	Yellow	Neon Orange	Red
	Part Numbers	#11000w	#12000w	#12200w	#13000w
Colours Available for Security Level Secure	Colours	Blue	Green	Grey	Black
	Part Numbers	#14000w	#15000w	#17000w	#18000w
Colours Available for Security Level Topsecure BäderIdent®	Colours	White	Yellow	Orange	
	Part Numbers	#11002w	#12002w	#12202w	
Colours Available for Security Level Topsecure BäderIdent®	Colours	Orange	Red		
	Part Numbers	#12202w	#13002w		
Colours Available for Security Level Topsecure BäderIdent®	Colours	White	Yellow	Orange	
	Part Numbers	#11001f	#12001f	#12201f	
Colours Available for Security Level Topsecure BäderIdent®	Colours	Red	Blue	Green	
	Part Numbers	#13001f	#14001f	#15001f	

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Technical Data – Greenmark® Zero Range

Viscosity	10,000 – 30,000 mPas
VOC Content	0 g/L
Application Temperature	+5°C to +30°C
Temperature Stability	Up to 90°C
pH Value	8 to 9
Flashpoint	-
Tack Free	10 minutes**
Full Cure	4 hours**
Density	0.98 g/cm ³

*Brush Marker and High Precision Marker are only available in Basic security level.

**Tack free and cure speed depends on coating thickness and ambient conditions.



Only Brush Marker and High Precision Marker are available in the Greenmark® Zero Range

Media Resistance – Standard 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	○
Hydrofluorether	●

● **Resistant:** No or very little impairment

○ **Limited resistance:** Weak to moderate attack

✗ **Unstable:** Strong attack / paint dissolves in medium

Optional Accessories:



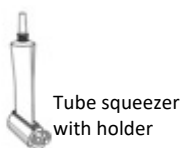
Cartridge Dispensing Tool & Dosing Tips Ø 0.33mm, 0.41mm, 0.58mm, 0.84mm, 1.19mm, 1.37mm.



300 mV infrared laser pointer



Analyzing device Brandproof®



Tube squeezer with holder



Reusable magnetic Tube holder



Reusable quick-release cap



Universal Tamper Proof Sealant Remover

Applications of Torque Sealant:

1. Used as a torque loosening indicator to immediately detect loosening of safety related fasteners.
2. Used as a visual inspection marker to indicate that a bolted joint has already been properly tightened or any workpiece has been inspected/approved.
3. Used as a tamper indicator to indicate whether threaded connections or components have been loosened without authorization.
4. Used as an assignment indicator to indicate which point in the production chain (e.g., production, installation, maintenance etc.) worked last on the workpiece at hand.
5. As a tamper proof threadlocker to secure threaded connection

Industry Specifications:

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

Packaging Available:

- 20ml tube with 40mm extension tip ID Ø1mm – Volume 0.20 L
- 30ml cartridge with 1/4" dispensing needle ID 0.58mm – Volume 0.30 L
- 50ml cartridge with 1/4" dispensing needle ID 0.58mm – Volume 0.50 L
- 1 kg can – Volume 0.98 L
- Brush Marker and High Precision Marker are available in 50 ml – Volume 0.50L

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