

B.T. innovation GmbH, 39116 Magdeburg, Germany

# Innovative solution for sealing a newly constructed bunker silo

**Protecting the environment has become one of the most pressing challenges of our time, and agriculture plays a crucial role in this. Progressive industrialisation and intensification of agricultural processes have led to increasing pollution of water bodies and soils. The safe storage and handling of agricultural residues such as slurry, liquid manure and silage effluent are particularly critical, as their improper release and disposal can cause considerable ecological damage. Agriculture must minimise their negative impact on the environment, for example through innovative sealing solutions.**

With its high-quality sealing products, B.T. innovation GmbH enables agricultural businesses not only to protect the environment, but also to safeguard their investments in the long term. BT is proud to make an important contribution to sustainable agriculture and is constantly working to develop innovative solutions to meet customer requirements.

BT has further developed and optimised the tried-and-tested AgrarElast joint sealant. Thanks to an improved recipe, the sealant is now also approved for steel surfaces. As joints between concrete, asphalt and steel can now be sealed with AgrarElast and these joints can be driven over, this consid-

erably expands the application possibilities. The improved AgrarElast joint sealing system has an approval (abZ: Z 74.62-176) from the German Institute of Building Technology (DIBt) and offers agricultural practitioners even more versatile and effective sealing solutions.

## Bunker silo in Issum

The company Sikotec-Fugentechnik decided in favour of the high-quality products from B.T. innovation GmbH for the sealing of a newly built bunker silo in Issum. The DIBt-approved joint sealant AgrarElast with the corresponding primer B(eton) was used.

BT's products impressed the customer with their excellent workability and the prevention of blistering, even at high outside temperatures. The high movement absorption and durability guarantee a reliable and long-lasting seal that fulfils the high requirements of modern agricultural buildings.

The sealing process began with the angular grinding of the concrete joint to ensure optimum adhesion. The joint was then thoroughly treated with B(eton) primer. After the primer had flashed off, a PE round cord was inserted as backfill ma-



*Sealed bunker silo in Issum*



## Solutions for the Precast Concrete Industry

**Maximum efficiency:**  
BT speeds up your production

- ✓ 40% time saving with BT technology
- ✓ Consulting & turnkey solutions



**BUTTERFLY BATTERY® MOULD**

Angular grinding of the concrete joint

Joint is treated with B(eton) primer

terial. Finally, the joint between the concrete parts was filled with AgrarElast, the sealant pressed onto the flanks and smoothed.

These professional products and precise work processes ensure the long-term functionality and durability of the bunker silo, even under demanding conditions. "The decisive factors for the long-term use of BT products are their quality, performance, outstanding advice and excellent service," explains Volker Skopp, owner of Sikotec-Fugentechnik.

### BT products are known for their reliability, quality and ease of use

For the agricultural construction sector, BT innovation has further specialised products for the permanent sealing of precast concrete and in-situ concrete components in the form of Agrar-RubberElast and Agrar-SynkoElast. Only the part of the work on slurry, liquid manure, silage and biogas plants requires construction products with DIBt approval. The BT product range for agricultural construction is therefore much more extensive.

### The BT sealing systems at a glance

- **AgrarElast**  
Trafficable joint sealant for concrete, asphalt and steel in slurry, liquid manure, silage and biogas plants (DIBt approval Z 74.62-176).
- **InnoElast® Type 2**  
Building authority-tested joint sealant for sealing structural joints, which can be used for subsequent sealing against pressing water up to 4.8 m.



Insert backfill cord



Filling the joint with AgrarElast

- **ProElast® system**  
Building authority approved sealing system for water-proof concrete made of foil and InnoElast foil adhesive, ideal for subsequent sealing against up to 20 metres of ingressing water.
- **Agrar-RubberElast**  
Joint tape for fast and secure sealing of even complex precast concrete joints in slurry, liquid manure, silage and biogas plants, preferably with the BT-Spannschloss® (turnbuckle) up to a tank filling height of four metres (DIBt approval Z-74.51-208).
- **RubberElast®**  
Joint tape approved by the building authorities for fast and reliable sealing of precast concrete joints up to a water depth of five metres.
- **MultiElast**  
Joint tape approved by the building authorities for sealing joints between precast concrete elements and in-situ concrete, which can be used to seal precast elements up to a water depth of 10 metres.
- **Agrar-SynkoElast**  
Joint tape for sealing construction joints with installation on hardened concrete. The construction joint tape enables the sealing of slurry, liquid manure, silage and biogas plants up to a tank filling height of 4 m (DIBt approval Z-74.51-184).
- **SynkoElast®**  
Construction joint tape approved by the building authorities for laying in in-situ concrete and on hardened

concrete, which can be used to seal construction joints against water under pressure of up to 20 metres. In addition to the SynkoElast joint tape, SynkoElast crack control profiles and SynkoElast stopend elements are also available. ■

FURTHER INFORMATION



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