

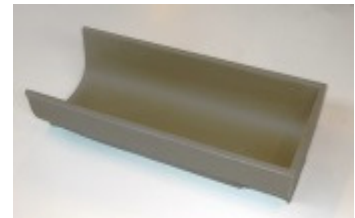
## Antibacterial livestock feeders made of antibacterial polymer concrete

### ABSTRACT:

Our partner, a Hungarian SME has developed a novel antibacterial polymer concrete that can be used for producing livestock feeders and drinking troughs. The company is looking for possible extensive cooperation in the field of livestock feeders manufacturing including partners interested in licensing the technology and manufacturing antibacterial livestock feeders, mainly but not limited to pig and cattle feeders; or interested in the distribution of our partner's pig and cattle feeder products. At the customer's request our partner is also able to make new casting molds according to the special need and to produce related products.

### TECHNOLOGY OVERVIEW:

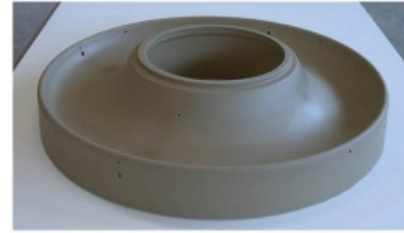
In recent years, it was realized by our partner that due to the increasing competition in the market, they should turn towards new and innovative technologies. The present technology represents a unique innovation in the market of polymer concrete livestock feeders/drinking troughs. By applying a non-hazardous ingredient, the above mentioned products got antibacterial properties.



Since the basic requirements of keeping farm animals are to keep the animal's body healthy and resistant to infections, the above mentioned technology can greatly help to meet these requirements. Applying the technology results in a self-disinfecting, highly durable surface that perfectly meets hygienic needs of today's customers.

**TECHNOLOGY FEATURES AND SPECIFICATIONS:**

Our partner's antibacterial polymer concrete is suitable for producing equipment for feeding and watering of farm animals. The polymer concrete contains the antibacterial additive and also an environmentally friendly binding material that is polyester resin instead of cement.



This is a modern material with an ever expanding use, which is also considered environmentally friendly.



Due to the antibacterial additive our partner's polymer concrete products have antibacterial effect on the surface. These products have high durability and long lifetime, since the product is highly resistant to abrasion. The anti-bacterial material is integrated into the material of the product therefore this antibacterial surface does not wear away. The products made of this polymer concrete has antibacterial surface therefore it is perfect for producing feeding and watering equipment.

In accordance with the increasingly stringent animal health laws, these eco-friendly products do not contain asbestos and cement. In addition to the above, polymer concrete is completely resistant to acidic and alkaline materials.



**POTENTIAL APPLICATIONS:**

Livestock feeders/drinking troughs made of polymer concrete; suitable for large-scale feeding and watering equipment not only for pig and cattle, but for any kind of farm animals. The technology can be used in other fields also, for example by plumbing manufacturers for producing antibacterial plumbing pipes.

**CUSTOMER BENEFITS:**

- Nanotechnology enabled antibacterial surface;

- Prevents food/water derived disease outbreaks;
- High durability, long lifetime;
- Environmentally favorable (less cleaning needed);
- Cost-efficient (by reducing cleaning needs, it saves water, energy and labor);
- Highly resistant to abrasion;
- Easy to clean;
- Developed in accordance with the ISO22196 Standard;
- Side effects are not expected since the antibacterial material is insoluble and durable.

**ADDITIONAL TECHNICAL INFORMATION:**

The technology is secret know-how. Patent application is expected to be filed in 2016.

**TECHNOLOGY READINESS LEVEL:**

The technology is ready to market.

**TYPE OF COLLABORATION:**

The company is looking for possible extensive cooperation in the field of livestock feeders manufacturing including partners interested in licensing the technology and manufacturing antibacterial livestock feeders or interested in the distribution of our partner's pig and cattle feeder products. At the customer's request our partner is also able to make new casting molds according to the special need and to produce related products.

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