

Coatings for Biogas Applications:

UDR-Fermenters with Ceramic Polymer Coating - Innovative biogas technics for highest efficiency

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UDR-fermenters and reflow tank from manufacturer Roering GmbH with diameters of 3 meters and heights of 9 and 11 meters.

» The key word for research and new development is bionics – learning from nature and achieving technical implementation. The manufacturer of energy systems, Roering GmbH in Vreden/Germany developed a new kind of high performance fermenter – the UDR fixed-bed fermenter.



Therefore, farm animals were the example; their rumen and intestine structure shows lamellar intestinal villi and lobes, on which micro-organisms adhere and commute organic material within a very short period energetically. In the UDR fermenter appears the same method. The upflow- and downflow reactors (UDR) are each fitted with a fixed-bed register, which provide large surface areas for high concentrated settlement of bacteria. By the added retention of biomass (reflow tank) a rapid biological implementation process is possible. The patented UDR fixed-bed reactors guarantee high efficiency with a minimum of energy consumption.



The internal coating of the UDR-reactors is conducted with our high performance product Proguard CN 100 LV-2.

This coating offers excellent resistance against the chemical attack of biogas and biomass.

It also provides steady protection against various substances such as: ammonia gases, sulfuric acids, hydrogen sulfides and organic acids resulting from variable pH-value and oxidative effect of the fermenting mass in the biogas fermenter.

The revolutionary development of Roering GmbH combined with Proguard CN 100 LV-2 feature outstanding effectiveness for the whole biogas-sector.



Innovative UDR-fermenter technology:

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Our Proguard product line shows versatile physical properties and excellent chemical resistance. For specific requirements we generated high-value coating products for biogas plants with patented integration of special-biocide-crystals, which provide targeted protection against anaerobe bio corrosion and resulting pitting corrosion.

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Our Product:

- Proguard CN 100 LV-2



Do you need a qualified partner for ultimate corrosion protection?

We gladly support you with our competence and coating products for highest requirements.

