

Coatings for Concrete Protection:

Ceramic Polymer Concrete Protection Systems:

Storage Room for aggressive Bio-waste was renovated effectively

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» For applications within the range of wastewater treatment and biogas techniques protective coatings should provide high-grade chemical and abrasion resistances. The concrete substrates in the storage room showed deep erosions caused by the chemical attack of aggressive biogenic waste material. The chamber was renovated with our concrete protection systems to ensure durable operation and value preservation.



The town Radeberg / Germany practices modern wastewater treatment techniques. Beside typical sewage sludge treatment the fermentation of bio-waste is used for gas extraction. Thereby, the cost effectiveness of the facility is considerably increased. The annually energy requirement of the sewage plant can be produced cost-saving by the factory-owned block heating station. Excesses of electricity and heat are fed into the public network. This combination of different preparation technologies is a prime example for efficient recycling.

The concrete storage showed deep erosions caused by the chemical attack of the aggressive waste materials.



Technical Information:

Project: Restoration of concrete storage for bio-waste

Area: 300 m² of wall and floor area

Application of the coating: ISDW GmbH

Coating products:

Primer, CP-Synthofloor Beta 8016

Top Coat, Proguard CN-1M



Our partner for competent surface treatment

ISDW GmbH
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The German company ISDW GmbH – Industry service and maintenance, is specialized in installation and repair of large sealing technology and specific pumps as well as the coating of engine parts and machine components. Furthermore, concrete substrates in the field of waste water technology and waste disposal are sealed professionally with high-performance coating products.



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Our Products:

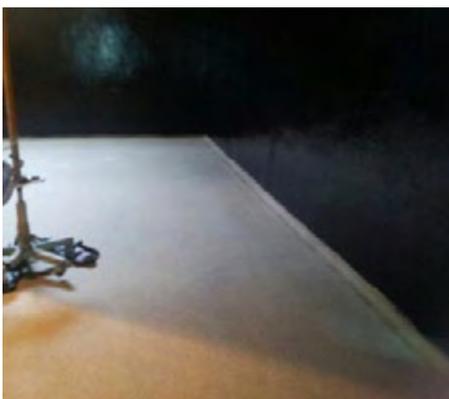
- CP-Synthofloor Beta 8016
- Proguard CN-1M



Step by step to durable concrete protection

To prepare the substrate for the application the whole area was sandblasted. The walls were treated with a high quality primer and filler. Also the damaged concrete pillars were flattened with an adequate grout product. Afterwards our chemical and abrasion resistant primer CP-Synthofloor Beta 8016 was applied on the walls.

For high-grade and durable chemical resistance, the wall areas were coated with our premium product Proguard CN-1M; simply by conventional hand tools as roll or brush. Deep concrete erosion occurred on the floor area, thus a separate and extensive treatment was required. Our low viscosity-system CP-Synthofloor 8002 was applied first as a primer, then in combination with kiln dried quartz sand as a grout. The layer was up to 5 cm thick until the floor was equalized. After curing the surface was undercoated and saturated with CP-Synthofloor Beta 8016. Thereby, the substrate was optimally prepared for the application of our high-performance product Proguard CN-1M.



**Would you like to protect concrete substrates
from chemical influences, abrasion and erosion?
We support you with A1 concrete protection systems!**