

Coatings for Sewage Technology:

65 Pipes at a big wastewater plant in Poland protected against abrasion and chemical influences

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The wastewater treatment plant in Warsaw, one of the biggest in Central Europe, has daily capacity of 500.000 m³. Until 2021, the capacity is to be doubled. Within this huge expansion and refurbishment project, 65 huge pipelines were coated with our products PROGUARD CN 200 and CERAMIC-POLYMER SF/LF to achieve a durable corrosion protection.



Technical Details

Project:	Coating of carbon steel pipes for sewage plant in Poland
Quantity/Size:	65 pipelines with diameters up to 2 meters, lengths up to 6 meters
Coating products:	PROGUARD CN 200 - internal Ceramic-Polymer SF/LF - external

The former installed supply pipes of high quality stainless steel showed heavy crystalline corrosion due to longstanding contact with raw sewage. It contains chlorides, which even destroy the protective passive layer of stainless steel.

The plant operators decided to use carbon steel pipes and apply high-class coatings to prevent them from corrosion damages. Offers were requested from 5 coating manufacturers; product properties were compared. Convincing by various application cases within the field of wastewater our solvent-free coating systems PROGUARD CN 200 as chemical resistant internal coating and CERAMIC-POLYMER SF/LF as reliable external coating were selected for this large project.

The huge pipes are presently built into the sewage plant. In March 2020, the new components will be taken into service. For the enduring protection of the pipelines, about 3.7 tons of coating material was applied.



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Our Products:

- PROGUARD CN 200

- CERAMIC-POLYMER SF/LF

Even at high chemical loads: Durable corrosion protection by only one layer

The ceramic filled internal coating PROGUARD CN 200 facilitates a uniform and immaculate coat with only one pass by airless spraying. Even at aggressively chemical exposure of the raw sewage one layer of 500 µm already contributes essentially to a long-lasting service life of the pipes. PROGUARD CN 200 is the ideal choice for the whole range of waste water engineering.

High-performance protection layer against environmental influences

CERAMIC-POLYMER SF/LF is suitable as internal and external coating for different tanks or pipelines. Considerably stability against environmental impacts provides protection in humid and industrial atmospheres. The product offers high abrasion resistance and adhesion properties. It is also applied in only one layer by airless spraying method. Within this project a layer thickness of 300 µm was enough for comprehensive protection.



Coated pipes and holder before assembly



After assembly the welding seams were additionally coated on site with a protective layer

**Do you need specific coatings for the wastewater area?
With our high-performance portfolio and expert advice
you obtain the ideal corrosion protection!**