

Coatings for Tanks and Pipelines:

Internal coating of a huge heat storage tank inside the „Energy bunker“ in Hamburg / Germany – First regenerative power station worldwide

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>> The Ceramic Polymer GmbH is considerably taking part in this unique project with the premium coating system Proguard CN 200. The gigantic heat storage tank in the inside of the flak bunker (anti-aircraft bunker) has a diameter of 11.5 meters and a height of 20 meters. 2 million liters of water can be stored and heated up to 90°C.

For durable preservation of the tank our internal coating Proguard CN 200 was applied. The use of our temperature resistant protection system within this innovative concept confirms once more the high performance and quality of the Ceramic Polymer brand coatings.

You can find more interesting information regarding the „Energy bunker“ on the website of „Internationale Bauausstellung IBA Hamburg“.

The „Energy bunker“ – Symbol for climate protection

(A project of „Internationale Bauausstellung IBA Hamburg“)
The former flak bunker in Wilhelmsburg/Germany is the new symbol for the climate protection concept “renewable Wilhelmsburg”. After “WW2” the monument was nearly unused. Since beginning of 2011, the bunker was renovated and completed to an ecological power station.

The combination of innovative technologies facilitates the supply of an urban district over 1.2 square kilometers (3000 households) with warm water and thermal heat. The huge heat storage tank with a capacity of 2000 m³ is powered by a mix of different renewable energies. A bio-methane fired block heating station and a wood chips firing system are installed in the basement of the bunker. On the roof and south facade photovoltaic and solar heat installations of 3000 m² produce environmentally friendly electricity and heat from sunlight. Furthermore, waste heat from a nearby industrial company is used as a regional energy source.



Technical Information:

Coating Product:
Proguard CN 200

Tank: Storage tank for hot water

Dimension:
Diameter of 11,5 m and a height of 20 m

Temperature:
up to 90°C

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Building of the heat storage tank
Segler GmbH & Co. KG
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Our Product:

- Proguard CN 200



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Our partners for tank building and surface technology

Building of the heat storage tank

The big heat storage tank was built by Segler GmbH & Co. KG. The company is specialized in fabrication of various kinds of tanks as well as extensive tank farms, multi-chamber tanks and large heat accumulators.

For more than 40 years, individual requirements and technical standards are competently implemented. The Segler GmbH & Co. KG produces tanks up to a height of 20 meters in the plant's own assembly tower. Larger tanks are built on site by employed certificated welders.

Surface treatment, coating application

The company Korrosionsschutz Taetz provides 30 years of experience in the complete field of surface technology. Authorized technical staff and innovative blasting and coating techniques facilitate perfect application results. The use of special elevator cars effectuates fast and flexible work without time-consuming scaffolding.



The German publishing group „Huber Verlag für Neue Medien GmbH“ bestows the „INDUSTRIEPREIS“ to companies with high economical, social, technological and ecological benefits.

The jury of 30 experts have chosen Ceramic Polymer GmbH for the „BEST OF 2013“.

Are you searching for a high-quality coating for durable corrosion protection?

Our expert team will gladly assist you!