

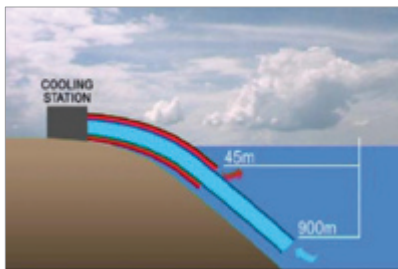
Ceramic Polymer GmbH
 Daimlerring 9
 DE-32289 Roedinghausen

Coatings for Maritime Techniques:

Sea water filters for nuclear power plant in Chugoku/Japan

www.ceramic-polymer.de

The Japanese energy provider CEPCO supplies the complete region Chugoku with electric power by the nuclear power plant "Shimane". Therefore, two sea water filters (Mushrooms) with a diameter of 25 meters were inserted on the seabed connected to the cooling water pumping station. These special filters regulate the constant stream of the salt water and avoid large parts to be absorbed, which could damage heat exchanger items in the power plant.



After priming the filter pillars were coated with our all-round product **Ceramic-Polymer SF/LF**. An essential advantage for this specific coating system is beside the protection of the concrete the outstanding physical properties. Due to the strong, impact resistant and smooth surface of the coated pillars, obviously less fouling occurs on the filter area. A heavy algae growth is impossible. The periodic cleaning of the filter pillars by scuba divers is compared to uncoated concrete multiple easier.

Coatings for Tanks and Vessels:

Renewal of refinery storage tanks for hot paraffin oil



The refinery of the company H & R in Salzbergen/Germany was established in 1860 and is the oldest, still producing specialized refinery of the world. They use riveted tanks for the storage of hot paraffin oil. After many years of operation time the tanks showed leakages during their filling by movements of the riveted bottom plates. Where exactly the fluid flew out of the tank could not be localized.

To seal and even the riveted bottom area with overlapping plates, **Proguard CN 200-thix** as flexible and thermal resistant filler was proved to be the optimal solution. For final coating **Proguard CN 200** was applied on the walls and bottom of the tank. This excellent hot water / drinking water coating system is physiological harmless and provides an extreme thermal and chemical resistance. Due to the easy, single-layer application of our high-grade products long down times of tanks and vessels for renewal or repairing are avoided.

Coatings for Chemikals:

Gamma rays of nuclear waste bins reduced by 85 %



For a customer in Taipeh/Taiwan we searched for a possibility to reduce the gamma rays of low radiation nuclear waste considerably. Our product **Proguard CN 100 iso**, which demonstrates high radiation insulating qualities, was applied with a layer thickness of 0,7 mm on the outsides of the nuclear waste bins. The detailed measurements resulted in a reduction of ray level radiated through the waste bins by averaged 85 %. This conclusion emphasizes once more the versatility of our coating systems.

