

## STORAGE TANK - STROM- UND HAFENBAU HAMBURG PORT AUTHORITY – GERMANY

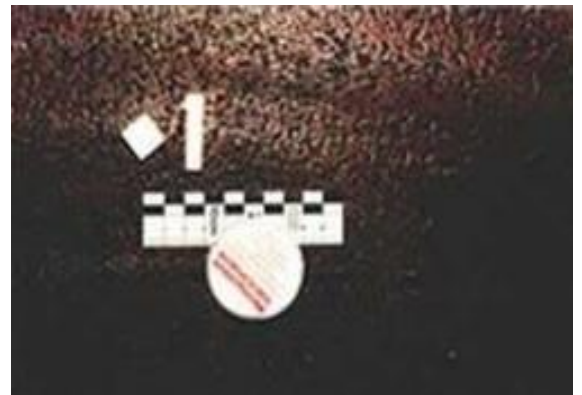
In 1989 an oil storage tank was protected with **ZINGA** by the engineering office of **Strom- und Hafenbau Hamburg**, the Port Authority.



The tank was evaluated after 10 years.  
The coating system was still in a perfect condition.  
You will find a testimonial letter from **Strom- und Hafenbau** on the next page.

As a result of this successful test application, the whole tank was painted in the course of the year 2000 with this system.

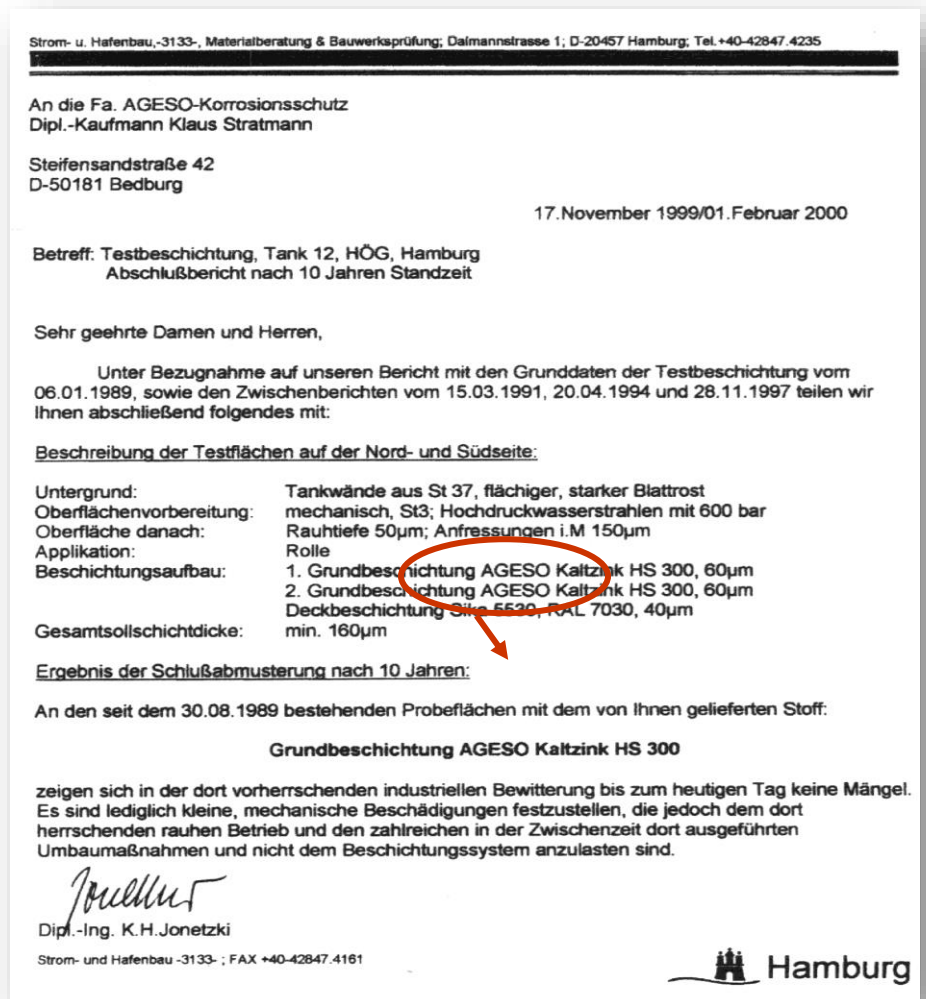
Below you see a detail of the condition of the tank in 1999.



Detail of the surface  
before treatment in 1989

System:  
ZINGA 2 x 60  $\mu\text{m}$  DFT  
Topcoat 1 x 40  $\mu\text{m}$

This is the testimonial letter from the engineering office **Strom- und Hafencbau Hamburg**, dated 17-11-1999 / 01-02-2000, wherein they state that **after a period of 10 years**, there is no deficiency in quality on the surface treated with this **ZINGA** system :



Free translation :

Strom- und Hafencbau Hamburg  
Dipl. Engineer K.H. Jonetzki

To: Ageso, Mr. Klaus Stratmann  
Date: 17/11/99-01/02/00  
Subject: Test on tank 12, HÖG,  
Hamburg: condition after 10 years.

We refer to our report dated 06/01/89 with the basic data of the coating test and also to our temporary reports dated 15/03/91, 20/04/94 and 28/11/97. We can conclude as follows:

Description of the tested parts : northern part and southern part  
Surface to be treated: Sides of the tanks of St 37, superficial, a lot of rust flakes  
Surface preparation: Mechanical, St 3, blasting with high pressure water 600 bar  
Surface afterwards: Roughness of 50 µm, irregularities in the surface ca 150 µm  
Application: by roll  
Duplex system: 1. Undercoat Ageso Kaltzink HS 300 (= ZINGA) 60 µm  
2. Undercoat Ageso Kaltzink HS 300 (= ZINGA) 60 µm  
3. Topcoat Sika 5530, RAL 7030 40 µm  
Total coating (minimum) 160 µm

Result of the final test sample after 10 years

Since 30/08/89 until today there was no deficiency in quality on the existing sample surface treated with the supplied product :  
AGESO KALTZINK HS 300 which had to cope with a severe industrial climate.  
Only some small, mechanical damage was visible, but this was due to a lot of manipulation in between, such as mantling etc. and not due to the coating system itself.