

Coatings for Tanks- and Pipelines:

Internal coating of crude oil dehydrators in Nishnikamsk / Russia

www.ceramic-polymer.de

- Horizontal cylindrical crude oil dehydrators made of carbon steel with a diameter of ca. 3 meters and a length of ca. 15 meters
- Operating parameters of 16 bar with a temperature of 160°C

Specification

- Provide permanent corrosion protection.
- Chemical resistance against H₂S (sour gas) and consistency against the attack of anaerobic bacteria (SRB / biological corrosion)

Technical solution

- **Proguard CN** for internal coating with following special benefits
 - Extreme adhesion on substrate by additives forming “chelate-compounds” with the steel surface
 - Excellent chemical and thermal resistance by unique multi-functional combination of resin and hardener

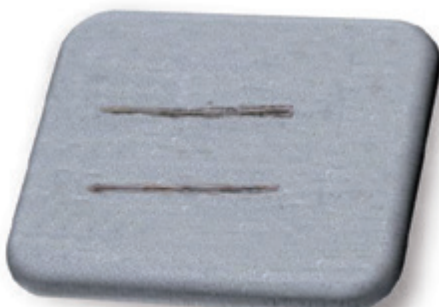


Coatings for Tanks- and Pipelines:

10.000-hour salt spray test successfully passed



Cleaned test plate after 10.000 hours



Stripped test plate after 10.000 hours

Test of corrosion resistance of “Ceramic-Polymer SF/LF” by salt spray test according to ASTM B117 / DIN EN ISO 9227

Procedure

- Sodium chloride solution (5%) with neutral pH Value
- Temperature of test chamber 35°C ± 2°C
- Air pressure 0,7 to 1,4 bar
- 10.000 hours salt spray (1,2 years!)

Result

- No lateral undercut corrosion at the score of coating after 10.000 hours
- Certification by an independent institute

We appreciate to give you technical advice for all corrosion protection issues and provide you the ultimative solution for all tanks and storage substances!

