

**Project**

**Internal coating of crude oil dehydrators in Nishnikamsk / Russia**

- 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 H<sub>2</sub>S (sour gas) and consistency against the attack of anaerobic bacteria (SRB / biological corrosion)

**Technical solution**

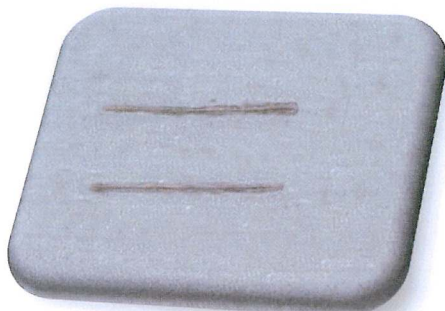
- **PROGUARD CN** for internal coating with following special benefits
  - Extreme adhesion on substrate by additives forming "chelate-compounds" with the steel surface
  - Excellent chemical and thermal resistance by unique multi-functional combination of resin and hardener



**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 CERAM-KOTE 54 SF 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!**