

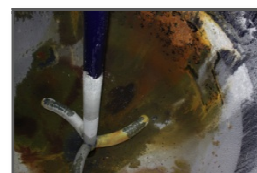
## Internal coating of production reactors for lubricant additives

Acid resistance at high operating temperatures

The Lubrizol Corporation owns production facilities in 27 countries and is specialized in fabrication of engine oils, driveline lubricants and pharmaceutical ingredients.



For Lubrizol GmbH in Germany, two production vessels of lubricant additives were renewed. The enamel coating of the reactors showed heavy corrosion damages and was at first removed completely by sand-blasting. As new protective coating our product **PROGUARD VEG** was applied by conventional spray method on the sand-blasted substrate. The outstanding chemical resistance against concentrated sulfuric acid at high operating temperatures of 90°C characterizes **PROGUARD VEG**.



damaged enamel coating before renewal



new internal coating with **PROGUARD VEG**

Selecting our premium coating system, which professionally satisfies the complex requirements of technical process plants, is permanently effective by preserving their value and avoiding expensive down-times.

## Approval for CERAM-KOTE 54 SF-APCS-2i according to Saudi Aramco standard

Maximum high performance properties

Saudi Aramco is the worldwide biggest oil production company. 525 million tons of crude oil are produced annually, with the Ghawar oil field Saudi Aramco hold the largest crude oil reservoir globally. By several subsidiary companies, amongst others the major tanker fleet and various joint ventures in oil and gas industry, Saudi Aramco is the most profitable corporate group at present times.



Coating products have to provide outstanding properties to meet the APCS-Criteria (Aramco paint and coating specification) and get accepted for Saudi Aramco application. Our product **CERAM-KOTE 54 SF-APCS-2i** was tested extensively by research laboratories of Saudi Aramco and was approved for application in accordance with their demanding requirements of APCS-2i. Specific aspects for the achieved approval were e. g. the excellent chemical resistance at high operating temperatures up to 150°C and the extremely pressure resistance, which was proven by autoclave-tests with explosive decompressions. This remarkable result shows clearly that Ceram Kote International GmbH is to be classified as market leader for high performance coatings in the sector of heavy corrosion protection.

**We appreciate answering your technical questions and provide you ultimate coating solutions for all projects concerning tanks and process vessels!**