

Coatings for Maritime Techniques:

**Ceramic Polymer: Our suitable offshore-coatings -
4 coating systems passed test according to ISO 20340!**

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Coatings, which are being used for offshore applications have to meet highest demands. The constantly moist and salt-laden air combined with intensive UV radiation is highly corrosive. Furthermore, extreme abrasion occurs within the tidal zone and the splash water zone. Offshore facilities are frequently hard-to-reach. Therefore, repairs of corrosion damages are expensive and oftentimes impossible.

One of the most important standards for offshore corrosion protection is the ISO 20340 (Performance requirements for protective paint systems for offshore and related structures).

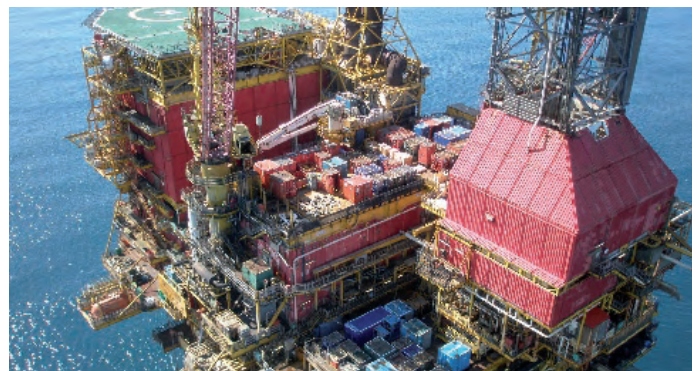
Only supremely resistant coating products can pass this demanding analysis. The „simulation of maritime weather conditions“ with UV radiation, permanent humidity and the salt spray sets abnormally high requirements to the coating material. But the main difficulty is the extreme temperature shock. The remaining water freezes within the test scratch. In most cases it blasts off the edges of the coating.

The Ceramic Polymer coatings did not show any defects such as blistering, crack formation or flaking off.

All 4 coating products provided excellent adhesion. No (!) corrosion creep at all occurred between the coating and the steel substrate.

Excellent results were also achieved in specific „pull-off-tests“ and „cathodic disbondment analyses“.

This confirms the unlimited qualification of our coating systems for the demanding offshore conditions!



Test procedure according to ISO 20340

25 week cycles (over 6 months!) as per following pattern:

- 3 days of „simulated weathering“, i.e. UV radiation and condensation with water in 4-hour-runs
- 3 days of permanent sprinkling with salt spray (5% sodium chloride solution) at 35 °C
- 1 day extreme thermal shock in cold chamber at -20°C!



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Our tested products

- Proguard CN 200
- Proguard CN 100 iso
- Ceramic-Polymer SF/LF
- Ceramic-Polymer SF/LF-3



More test series regarding drinking water applications: Proguard CN 200 features "German standard DVGW-W270"!

Our high-performance coating Proguard CN 200 has already got a certification of „German standard KTW“ for heated drinking water up to 85°C.

To prove its absolute suitability, Proguard CN 200 was being tested recently by an independent institute for hygiene technology. The „German standard DVGW - process sheet W270 (2007/11)“ specifies extensive guide lines.

The exposure period was 3 months. The test specimens were checked on slime formation and the growth of microorganisms after a defined schedule. The „biofilm formation“ on the coated surfaces remained at all measurements way below the limited values.

Therefore, Proguard CN 200 from our Premium-product line is also in microbiological aspects qualified for all drinking water applications.

Do you have further questions regarding our tested coating systems or do you need corrosion protection products for specific requirements?

Our coating experts will gladly assist you!