

## Coatings for Offshore Applications:

# Our offshore coatings ensure the functionality of wind energy plants



Europe aims for a regenerative energy production with big offshore wind farms. The United Kingdom, Germany and Denmark are the leading countries within this industrial sector. Now the wave spills over to Asian waters; China and Japan expand their offshore capacities for efficient utilization of ecological energy sources.



Rotor frames, rotor blades and towers of offshore wind generators have to withstand extreme weather conditions. The constantly moist and salt-laden air combined with intensive UV radiation is highly corrosive. Tremendous wind speeds and rainstorms with an impact of hammer strokes induce heavy wear and abrasion effects. Due to tides and waves foundation piles are exposed to high corrosion risk and severe mechanical friction.

Ceramic Polymer GmbH provides solvent-free protection systems, tested in accordance with ISO 20340. The relevant corrosivity categories for the offshore industry (DIN EN ISO 12944-2 – classes C5-M and IM1-3) are also completely satisfied by our high-performance portfolio.





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**We feature internal and external coatings for different components of wind power plants**

<b>Rotor hub</b>	Solvent-free Ceramic-Epoxy: Ceramic Polymer SF/LF Polyurethane Topcoat: Proguard 169 (37)
<b>Gearing mechanism</b>	Ceramic-Epoxy: Proguard M
<b>Generator</b>	Ceramic-Epoxy: Proguard M
<b>Brakes</b>	Ceramic-Epoxy: Proguard M
<b>Tower, internal coating</b>	Solvent-free Ceramic-Epoxy: Ceramic Polymer SF/LF
<b>Tower, external coating</b>	Solvent-free Ceramic-Epoxy: Ceramic Polymer SF/LF Polyurethane Topcoat: Proguard 169 (37)
<b>Foundation structures (Tripile, Jacket etc.)</b>	Solvent-free Ceramic-Epoxy: Ceramic Polymer SF/LF



**Are you searching for resistant coatings for extremely aggressive environments?**

**Would you like to minimize maintenance and repair efforts of your offshore facilities?**

**We gladly support you with our specific protection systems!**