



**Advances in wind turbine blade design and materials: 12. Surface protection and coatings for wind turbine rotor blades (Woodhead Publishing Series in Energy)**

*B. Kjærside Storm*

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## Advances in wind turbine blade design and materials: 12. Surface protection and coatings for wind turbine rotor blades (Woodhead Publishing Series in Energy) B. Kjærside Storm

This chapter discusses surface layer protection for wind turbine rotor blades. The surface protection and coating can be a gelcoat or a paint and can be made of unsaturated polyester, epoxy, polyurethane or acrylic. As wind turbines are often erected in harsh climates, the blade surface will be exposed to conditions that cause erosion and wear. There are tests to measure resistance against these attacks, and the surface is designed to minimize damage to the blade caused by the environment. By using existing standards for surface layers for offshore use and for helicopters, it has been found that a combination of accelerated tests for UV degradation, chemical attack and wear give a complete picture of the performance of surface layers.

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