

# Waterproofing Systems and Technical Solutions



## Humber Gateway Wind Farm

PAREX 100 NEWTON AW (ANTI-WASHOUT) GROUT was used for transition grouting of more than 70 wind turbine foundations for key energy company E.ON over a two year period.

The material was delivered to locations in the North Sea in bulk tankers mounted on the deck of supply vessels.

Bulk delivery to the point of use ensured that the material was protected from contamination in the harsh conditions, ready for placement using continuous mixer pumps direct to the foundations.

The strong anti-washout characteristics of the material allowed placement into wet or water-filled voids, giving an initial set within 220 minutes and achieving a high early strength gain rising to 100 N/mm<sup>2</sup> at 28 days.

The use of PAREX 100 Newton AW Grout provided significantly increased placement rate when compared with conventional pan mixing plant methods, with up to 20 m<sup>3</sup> achievable. The dust-free silo delivery method also meant cleaner and safer conditions for the installers.

PAREX 100 NEWTON GROUT has been used successfully for many major onshore projects over the years and the addition of ant-washout properties now provides scope for many marine and offshore applications requiring high strength grouting.

### APPLIED PRODUCT



- PAREX 100 NEWTON AW GROUT USED FOR TRANSITION GROUTING OF WIND TURBINES

### TECHNICAL DETAILS

- 3,600 tonnes of PAREX 100 NEWTON ANTI-WASHOUT GROUT applied using continuous mechanical pumps

### > LOCATION

Humber Gateway - North Sea - UK

### > CUSTOMER

E.ON

### > MARKET SEGMENT

Wind Farm

### > SUBSEGMENT FUNCTION

Bedding & Anchoring

### > YEAR

2015

BRAND

**PAREX**<sup>®</sup>

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Building expertise, together