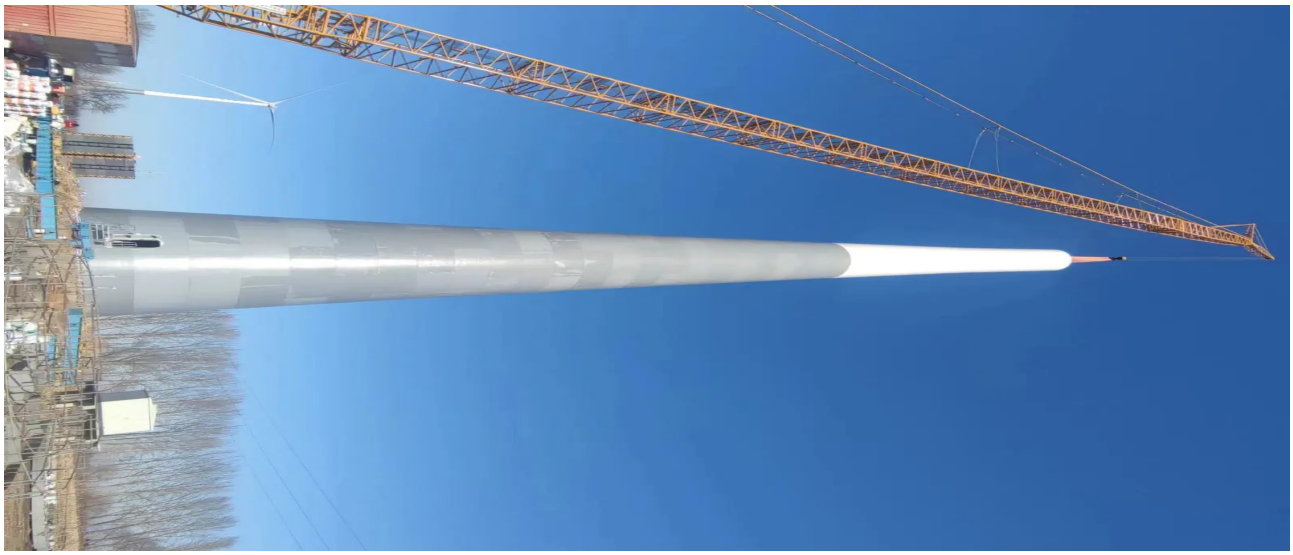
PRESTRESSED DUCT AND CONNECTION GROUT

Kuaizhuang Hybrid Wind Tower Duct Grout

Product code: Kuaizhuang Duct Grout | English technical translation | Revision EN-01



Special cementitious pressure grout for prestressed ducts, connection voids and grouted details in assembled concrete and hybrid wind towers. The selection route focuses on flow time, bleeding, pressure bleeding, expansion and strength development.

SOURCE STATUS	Translated from the supplied Chinese product manual. Requirements are kept separate from independent test results. Confirm the current controlled TDS, batch label and project specification before approval.

Intended use

- Prestressed ducts in assembled wind towers
- Hybrid concrete tower connection voids
- Pressure grouting of large precast structures
- Wind tower work under approved low-temperature procedures

Product characteristics

- Stable flow time through 60 minutes
- Zero 3 h bleeding and zero filament bleeding
- Pressure-bleeding control
- 80 MPa 28 d compressive requirement
- 10 MPa 28 d flexural requirement

Technical requirements

Property	Requirement / published value	Source / interpretation
Water-to-material ratio	<=0.26 to 0.28	Confirm the approved project value
Initial / final setting time	>=5 / <=24 h	Supplied manual
Flow time - initial / 30 / 60 min	10-17 / 10-20 / 10-25 s	JTG/T 3650-2020 reference
3 h bleeding / filament bleeding	0 / 0%	Supplied manual
Pressure bleeding at 0.22 or 0.36 MPa	<=2.0%	By duct height route in supplied manual
Free expansion - 3 / 24 h	0-2 / 0-3%	Supplied manual
Compressive strength - 3 / 7 / 28 d	>=25 / >=35 / >=80 MPa	Supplied manual
Flexural strength - 3 / 7 / 28 d	>=5 / >=6 / >=10 MPa	Supplied manual
Corrosion effect on prestressing steel	No corrosion	Supplied manual

Installation control

01	Confirm duct geometry, vents, outlets, grout volume and the approved water ratio.
02	Dose components accurately in clean containers and mix to a uniform consistency.
03	For larger batches, use mechanical mixing and keep the vessel edges and base fully incorporated.
04	Pump continuously, confirm outlet quality and close vents in the approved sequence.
05	Record flow time, pressure, batch times, specimens and the final grout take.

Packaging and storage

25 kg composite bags. Store unopened in a dry, ventilated area. The supplied manual states a 3-month storage period.

Project approval checklist

- Connection drawing, gap geometry and total material volume
- Specified requirement, test age, specimen geometry and applicable method
- Minimum and maximum material, substrate and ambient temperatures
- Mixer, pump, hose, standby equipment and continuous placement capacity
- Inspection, sampling, curing and release-strength plan
- Current approved TDS, SDS and project-specific method statement

Technical contact

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