

COLD-CLIMATE WIND FOUNDATION GROUT

CBGM Antifreeze Wind Turbine Foundation Grout

Product code: CBGM Antifreeze | English technical translation | Revision EN-01



High-strength, high-flow, non-shrink grout developed for wind turbine foundations and anchorage zones installed under controlled low-temperature procedures. The supplied manual positions the product for severe winter work down to -20 deg C.

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

- Winter wind turbine foundation grouting
- Baseplate and anchor-cage load-transfer zones
- Cold-region and high-altitude wind farms
- 25 to 300 mm project-approved gaps

Product characteristics

- Flow requirements at -5 deg C and 8 deg C
- Negative-temperature strength development route
- Zero bleeding
- Controlled vertical expansion
- Temperature-conditioned materials, water, substrate and curing

Technical requirements

Property	Requirement / published value	Source / interpretation
Flow at -5 deg C - initial / 30 min	≥ 300 / ≥ 260 mm	Supplied manual
Flow at 8 deg C - initial / 30 min	≥ 300 / ≥ 260 mm	Supplied manual
Compressive strength - 12 h / 1 d / 3 d	≥ 25 / ≥ 35 / ≥ 60 MPa	Negative-temperature conditioning route
7 d negative curing plus 21 d standard curing	≥ 85 MPa	Supplied manual
3 h vertical expansion	0.02 to 2.0%	Supplied manual
24 h minus 3 h expansion	0.02 to 0.40%	Supplied manual
28 d dry shrinkage	$\leq 0.045\%$	Supplied manual
Chloride ion content	$\leq 0.03\%$	By total grout mass; supplied manual
Bleeding	0%	Supplied manual

Installation control

01	Approve a cold-weather method statement before work starts.
02	Measure powder, water, substrate and ambient temperatures rather than relying on weather forecasts alone.
03	Condition materials and water to the approved range and verify mixer and pump readiness.
04	Place continuously and protect the connection with an insulated curing enclosure.
05	Release only on verified strength results from the approved curing route.

Packaging and storage

25 kg composite bags. Store sealed in a dry, ventilated room and protect from moisture and freezing. 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

Email: info@sino-sina.com | WhatsApp: +86 153 7387 2353 | Website: www.sino-sina.com

This English document is a controlled public translation prepared from the supplied Chinese manual. It is not a certificate, declaration of conformity or substitute for a project-specific approval package.