

UNDERWATER GROUT FOR OFFSHORE WIND FOUNDATIONS

CBGM-50/70 Underwater Anti-Dispersion Grout

Product code: CBGM-50 / CBGM-70 | English technical translation | Revision EN-01



Factory-blended cementitious underwater anti-dispersion grout for submerged offshore wind foundation cavities, jacket and pile connection zones, and marine void filling. The two grades provide separate compressive-strength routes and must be selected with the approved underwater placement method.

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

- Submerged offshore wind foundation cavities
- Underwater jacket and pile connection zones
- Marine void filling where washout control is required
- Project-approved underwater pumping or tremie placement

Product characteristics

- CBGM-50 and CBGM-70 strength routes
- Initial and 30-minute flow requirements
- Zero-bleeding requirement
- Underwater anti-dispersion positioning
- Published reinforcement-corrosion and chloride-ion criteria

Technical requirements

Property	Requirement / published value	Source / interpretation
Initial / 30 min flow - both grades	≥ 290 / ≥ 260 mm	Supplied offshore-wind manual
1 / 3 / 28 d compressive - CBGM-50	≥ 15 / ≥ 30 / ≥ 50 MPa	Supplied offshore-wind manual
1 / 3 / 28 d compressive - CBGM-70	≥ 20 / ≥ 40 / ≥ 70 MPa	Supplied offshore-wind manual
Bleeding	0%	Supplied offshore-wind manual; both grades
Corrosion effect on underwater reinforcement	None	Published criterion; confirm the current test method
Chloride ion content	$< 1.5\%$	Confirm calculation basis in the current controlled TDS
Vertical expansion	Current controlled TDS required	Source table is visually ambiguous; no value is inferred

Installation control

01	Confirm water depth, flow conditions, cavity geometry, grout volume and acceptance criteria.
02	Approve the pumping, tremie or injection route with seals, vents and grout-return points.
03	Use calibrated water and project-approved mixing equipment; verify flow before pumping.
04	Place continuously while monitoring pressure, volume, discharge condition and any evidence of washout.
05	Record batches, fresh-property checks, specimens, curing conditions and final grout take.

Packaging and storage

The supplied product bag image states 25 kg +/- 0.5 kg. Confirm the current batch label, controlled TDS, pallet configuration and shelf life before ordering.

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

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